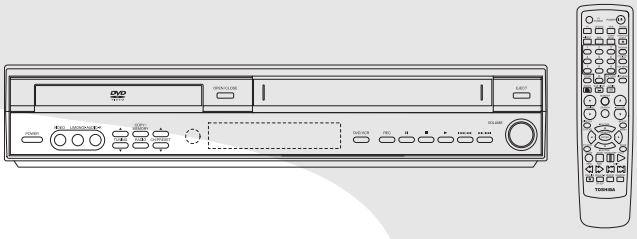
TOSHIBA

FILE NO. 810-200439

SERVICE MANUAL

DVD/VCR
Home Theater System

SD-V65HTSC
SD-V65HTSU



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SECTION 1

SUMMARY

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PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

IMPORTANT SAFETY NOTICE

This manual was prepared for use only by properly trained audio-video service technicians.

When servicing this product, under no circumstances should the original design be modified or altered without permission from TOSHIBA Electronics Corporation. All components should be replaced only with types identical to those in the original circuit and their physical location, wiring and lead dress must conform to original layout upon completion of repairs.

Special components are also used to prevent x-radiation, shock and fire hazard. These components are indicated by the letter "x" included in their component designators and are required to maintain safe performance. No deviations are allowed without prior approval by TOSHIBA Electronics Corporation.

Circuit diagrams may occasionally differ from the actual circuit used. This way, implementation of the latest safety and performance improvement changes into the set is not delayed until the new service literature is printed.

CAUTION: Do not attempt to modify this product in any way. Never perform customized installations without manufacturer's approval. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury.

Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines.

GRAPHIC SYMBOLS

The exclamation point within an equilateral triangle is intended to alert the service personnel to important safety information in the service literature.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the service personnel to the presence of noninsulated "dangerous voltage" that may be of sufficient magnitude to constitute a risk of electric shock.

The pictorial representation of a fuse and its rating within an equilateral triangle is intended to convey to the service personnel the following fuse replacement caution notice:

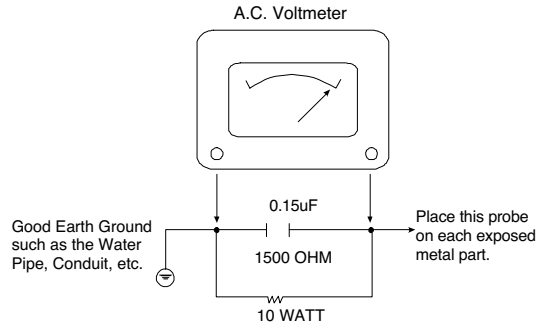
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ALL FUSES WITH THE SAME TYPE AND RATING AS MARKED NEAR EACH FUSE.

SERVICE INFORMATION

While servicing, use an isolation transformer for protection from AC line shock. After the original service problem has been corrected, make a check of the following:

FIRE AND SHOCK HAZARD

1. Be sure that all components are positioned to avoid a possibility of adjacent component shorts. This is especially important on items trans-ported to and from the repair shop.
2. Verify that all protective devices such as insulators, barriers, covers, shields, strain reliefs, power supply cords, and other hardware have been reinstalled per the original design. Be sure that the safety purpose of the polarized line plug has not been defeated.
3. Soldering must be inspected to discover possible cold solder joints, solder splashes, or sharp solder points. Be certain to remove all loose foreign particles.
4. Check for physical evidence of damage or deterioration to parts and components, for frayed leads or damaged insulation (including the AC cord), and replace if necessary.
5. No lead or component should touch a high current device or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. After reassembly of the set, always perform an AC leakage test on all exposed metallic parts of the cabinet (the channel selector knobs, antenna terminals, handle and screws) to be sure that set is safe to operate without danger of electrical shock. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST. Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner: Connect a 1500 ohm, 10 watt resistor, paralleled by a .15 mfd 150V AC type capacitor between a known good earth ground water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and .15 mfd capacitor. Reverse the AC plug by using a non-polarized adaptor and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 volts RMS. This corresponds to 0.5 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



TIPS ON PROPER INSTALLATION

1. Never install any receiver in a closed-in recess, cubbyhole, or closely fitting shelf space over, or close to, a heat duct, or in the path of heated air flow.
2. Avoid conditions of high humidity such as: outdoor patio installations where dew is a factor, near steam radiators where steam leakage is a factor, etc.
3. Avoid placement where draperies may obstruct venting. The customer should also avoid the use of decorative scarves or other coverings that might obstruct ventilation.
4. Wall- and shelf-mounted installations using a commercial mounting kit must follow the factory-approved mounting instructions. A product mounted to a shelf or platform must retain its original feet (or the equivalent thickness in spacers) to provide adequate air flow across the bottom. Bolts or screws used for fasteners must not touch any parts or wiring. Perform leakage tests on customized installations.
5. Caution customers against mounting a product on a sloping shelf or in a tilted position, unless the receiver is properly secured.
6. A product on a roll-about cart should be stable in its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets.
7. Caution customers against using extension cords. Explain that a forest of extensions, sprouting from a single outlet, can lead to disastrous consequences to home and family.

SERVICING PRECAUTIONS

CAUTION : Before servicing the COMBI HOME THEATER SYSTEM covered by this service data and its supplements and addends, read and follow the SAFETY PRECAUTIONS.
NOTE : if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publications, always follow the safety precautions.
Remembers Safety First:

General Servicing Precautions

1. Always unplug the COMBI HOME THEATER SYSTEM AC power cord from the AC power source before:
   (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
   (2) Disconnection or reconnecting any internal electrical plug or other electrical connection.
   (3) Connecting a test substitute in parallel with an electrolytic capacitor.
   Caution : A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Do not spray chemicals on or near this COMBI HOME THEATER SYSTEM or any of its assemblies.

3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator.
   Unless specified otherwise in this service data, lubrication of contacts is not required.

4. Do not defeat any plug/socket B+ voltage interlocks with whitch instruments covered by this service manual might be equipped.

5. Do not apply AC power to this COMBI HOME THEATER SYSTEM and/or any of its electrical assemblies unless all solid-state device heat sinks are cerrectly installed.

6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an insulation resistance meter(500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts (Note 1) should be more than 1M-ohm.
Note 1 : Accessible Conductive Parts including Metal panels, Input terminals, Earphone jacks, etc.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.
The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grouned-tip soldering iron to solder or unsolder ES devices.

4. Use only an anti-static solder removal device. Some solder removal devices not classified a “anti-static” can generate electrical charges sufficient to damage ES devices.

5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protec tive package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

TOSHIBA

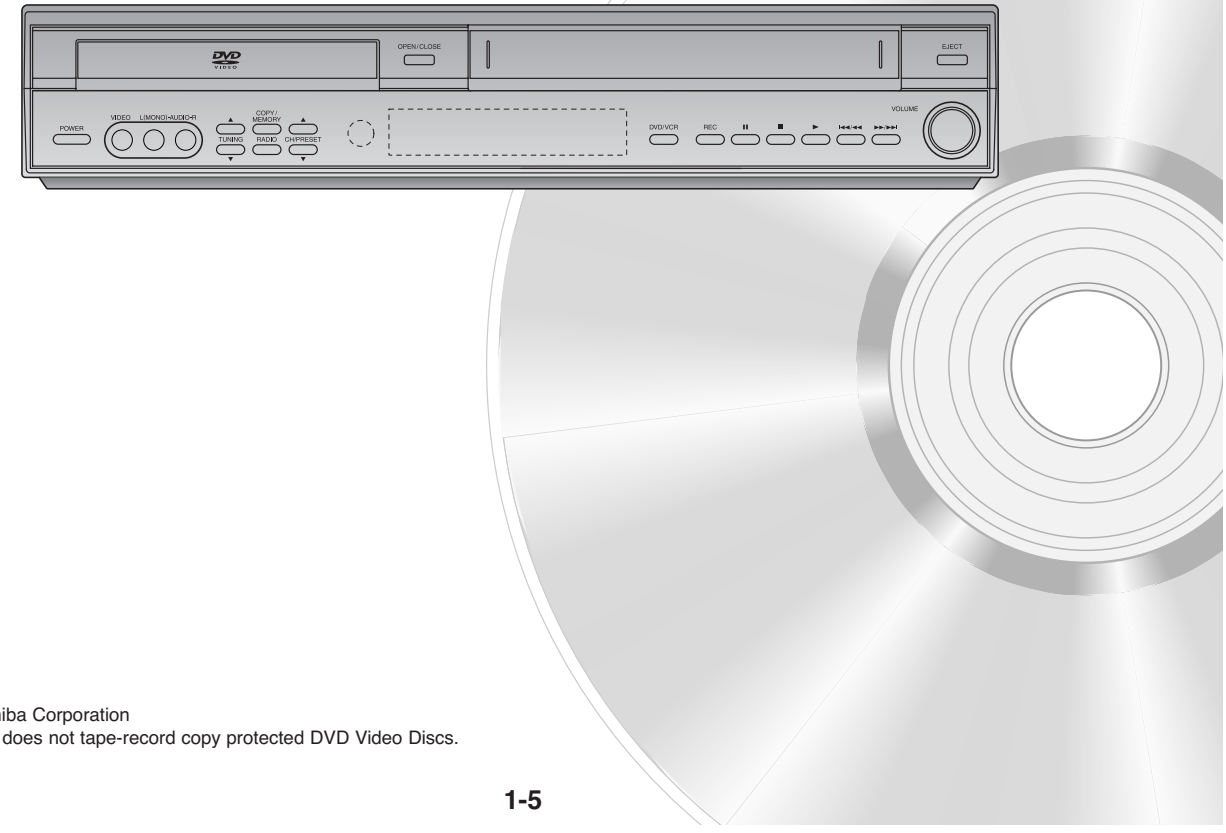
DVD/VCR
Home Theater System

SD-V65HTSU

OWNER'S MANUAL

VHS Hi-Fi SQPB

Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.



©2004 Toshiba Corporation
This device does not tape-record copy protected DVD Video Discs.

Safety Precautions

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

WARNING: Do not install this equipment in a confined space such as a bookcase or similar unit.

NOTE TO CABLE/TV INSTALLER: This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

CAUTION:

This DVD/VCR receiver employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service location.

Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION: The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

REGULATORY INFORMATION: FCC Part 15

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTES ON COPYRIGHTS:

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission.

This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs on a VCR, picture noise will appear.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

SERIAL NUMBER: The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase.

Model No. _____

Serial No. _____

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL. AND THOSE MARKED ON THE PRODUCT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This product has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this product will protect you if you observe the following procedures for installation, use, and servicing.

This product does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

1. **Read these instructions. -** All these safety and operating instructions should be read before the product is operated.

2. **Keep these instructions. -** The safety, operating and use instructions should be retained for future reference.

3. **Heed all warnings. -** All warnings on the product and in the operating instructions should be adhered to.

4. **Follow all instructions. -** All operating and use instructions should be followed.

5. **Do not use this product near water. –** For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and other areas located near water.

6. **Clean only with dry cloth. –** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.

7. **Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. -** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over-heating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

8. **Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.**

9. **Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.**

10. **Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.**

11. **Only use attachments/accessories specified by the manufacturer.**

12. **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/product combination to avoid injury from tip-over.**

13. **Unplug this product during lightning storms or when unused for long periods of time.**

14. **Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.**

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About the symbols for instructions

⚠ Indicates hazards likely to cause harm to the unit itself or other material damage.

Indicates special operating features of this unit.

Indicates tips and hints for making the task easier.

Playable Discs

DVD VIDEO	DVD (8 cm/12 cm disc)
COMPACT disc DIGITAL VIDEO	Video CD (VCD) (8 cm / 12 cm disc)
COMPACT disc DIGITAL AUDIO	Audio CD (8 cm/12 cm disc)

In addition, this unit can play a DVD-R/±RW, SVCD, Kodak PICTURE CD and CD-R or CD-RW that contains audio titles, MP3, WMA or JPEG files.

Notes

- Depending on the conditions of the recording equipment or the CD-R/RW (or DVD-R/±RW) disc itself, some CD-R/RW (or DVD-R/±RW) discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available or other functions may be added.
Make sure to also refer to the instructions supplied with the DVDs and Video CDs. Some DVDs made for business purposes may not be able to be played on the unit.

Regional code of the DVD/VCR Receiver and DVDs

This DVD/VCR Receiver is designed and manufactured for playback of region “1” encoded DVD software. The region code on the labels of some DVDs indicates which type of player can play those discs. This unit can only play DVDs labelled “1” or “ALL”. If you try to play any other discs, the message “Check Regional Code” will appear on the TV screen. Some DVDs that have no region code label may still be subject to area restrictions and therefore not playable.

Note on DTS-encoded CDs

When playing DTS-encoded CDs, excessive noise may be exhibited from the analog stereo output. To avoid possible damage to the audio system, turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output of the unit.

Disc-related Terms

Title (DVD only)

The main film content or accompanying feature content or additional feature content, or music album.
Each title is assigned a title reference number enabling you to locate it easily.

Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, chapters may not be recorded.

Track (Video CD and Audio CD only)

Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

Scene

On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called “Scenes”. Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.
A scene is composed of one or several tracks.

Types of Video CDs

There are two types of Video CDs:

Video CDs equipped with PBC (Version 2.0)

PBC (Playback control) functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc.

Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

Precautions

Handling the unit

When shipping the unit
The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packaged at the factory.

When setting up the unit
The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc.

To keep the surface clean
Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

Cleaning the unit

To clean the cabinet
Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzine, or thinner, as these might damage the surface of the unit.

To obtain a clear picture
The DVD/VCR Receiver is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality will be poor. Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)
For details, please contact your nearest dealer.

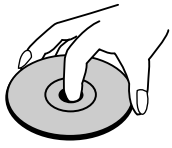
Moisture Condensation

Never operate the DVD+VCR immediately after moving it from a cold location to a warm location. Leave it for two or three hours without operating it. If you use the DVD+VCR in such a situation, it may damage discs/tapes and internal parts.

Notes on Discs

Handling discs

Do not touch the playback side of the disc.
Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

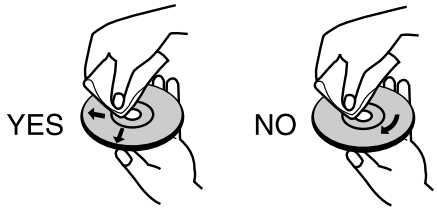


Storing discs

After playing, store the disc in its case.
Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

About Symbols

About the ⃠ symbol display

" ⃠ " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available at that moment or with that specific DVD video disc.

About the disc symbols for instructions

A section whose title has one of the following symbols are applicable only to those discs represented by the symbol.

- **DVD** DVDs.
- **CD** Audio CDs.
- **VCD2.0** Video CDs with the PBC (playback control) function.
- **VCD1.1** Video CDs without the PBC (playback control) function.
- **MP3** MP3 Discs.
- **WMA** WMA Discs.
- **JPEG** JPEG Files.

Selecting the Viewing Source

You must select one of your output sources (DVD or VCR) to view on the TV screen.

- **If you want to view DVD deck output source:**
Press DVD/CD until DVD indicator in the display window lights and output source of DVD deck is viewed on the TV screen.
- **If you want to view VCR deck output source:**
Press VCR until VCR indicator in the display window lights and output source of VCR deck is viewed on the TV screen.
- **If you want to listen to AM/FM radio broadcasts:**
Press FM/AM until RADIO indicator in the display window lights and the frequency band appears on the TV screen.

Notes

- If you insert a disc while the DVD/VCR Receiver is in the VCR mode, the DVD/VCR Receiver will switch to DVD mode automatically.
- If you insert a cassette tape without an erasure prevention tab intact while the DVD/VCR Receiver is in the DVD mode, the DVD/VCR Receiver will switch to VCR mode automatically.

Front Panel

POWER
Switches the DVD/VCR Receiver ON and OFF.

EJECT
Ejects the tape in the VCR deck.

VIDEO / AUDIO (Left/Right) input
Connect the audio/video output of an external source (Audio system, TV/ Monitor, another VCR).

VOLUME
Adjusts volume of speakers.

► (PLAY)
To play back a recorded tape or disc.

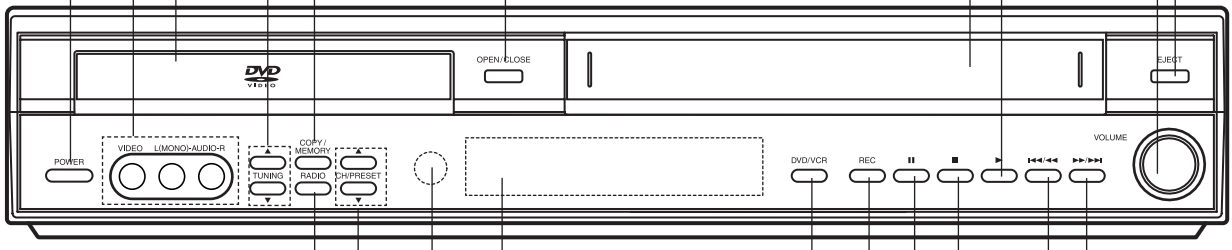
Disc Tray (DVD deck)
Insert a disc here.

TUNING (▲/▼)
Selects FM and AM band.

COPY/MEMORY
Press to copy a DVD in the DVD deck to a VHS tape in the VCR deck.
Memorizes currently tuned Radio frequency (station).

OPEN/CLOSE
Opens or closes the disc tray.

Cassette Compartment (VCR deck)
Insert a video cassette here.



RADIO
Selects Radio operation mode.

DVD/VCR
Toggles control between the DVD deck and the VCR deck.

CH/PRESET (▲/▼)
Scans up or down through memorized channels or radio frequencies (stations).

REC
To record normally or to activate Instant Timer Recording.

Remote Sensor
Point the DVD/VCR Receiver remote control here.

❚❚ (PAUSE/STEP)
Pause playback or recording temporarily/press repeatedly for frame-by-frame playback.

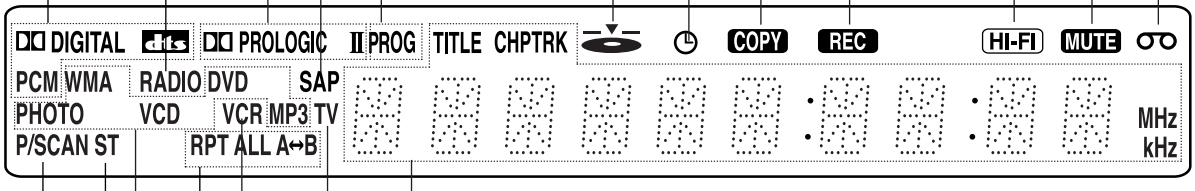
Display window
Shows the current status of the DVD/VCR Receiver.

■ (STOP)
Stops playback of a disc or tape.

I◄◄ / ◄◄
DVD: Go to beginning of current chapter/track or Press two times in quick successions to go to previous chapter/track. Press and hold for a fast reverse search.
VCR: Rewinds the tape during the STOP mode or for fast reverse picture search.

►► / ►►I
DVD: Go to NEXT chapter/track. Press and hold for two seconds for a fast forward search.
VCR: Advances the tape during the STOP mode or for fast forward picture search.

Display Window



Indicates encoding format of the current disc.

A cassette is in the VCR deck.

RADIO Indicates RADIO mode is active

MUTE The speaker sound is muted.

Indicates sound mode is DOLBY PROLOGIC or DOLBY PROLOGICII.

SAP Indicates when a SAP BILINGUAL broadcast is being received.

HI-FI Indicates the unit is playing back a tape recorded in Hi-Fi.

REC DVD/VCR Receiver is Recording.

COPY DVD to VCR copy is in progress.

TIMER DVD/VCR Receiver is in timer recording or a timer recording is programmed.

Lights when a disc is in the DVD deck

PROG Indicates when programmed playback is in progress.

Indicates clock, total playing time, elapsed time, remaining time, title number, chapter/track number, channel, radio frequency, level, volume, channel or current deck status (Playback, Pause, Mode, etc).

Lights when TV mode is active.

The VCR deck is selected.

Indicates repeat mode

DVD DVD inserted.
PHOTO Photo disc inserted.
VCD Video CD inserted.
MP3 MP3 disc inserted.

ST Indicates a stereo broadcast is being received.

Indicates when the Progressive scan playback is in progress.

Remote Control

TV POWER
Switches TV ON and OFF.

INPUT •
- Selects the VCR deck's source (Tuner, LINE 1, or LINE 2) in VCR mode.
- Selects the TV external source in TV mode.

AUX •
To listen to an audio source connected to the DIGITAL AUDIO IN (OPTICAL) jack with video from LINE 1.

SOUND MODE •
Selects sound mode between BYPASS, PRO LOGIC, PRO LOGICII (MOVIE, MUSIC, MATRIX) and 3D SURROUND.

OPEN/CLOSE, EJECT (⏏) •
- Opens and closes the disc tray.
- Ejects the tape in the VCR deck.

0-9 numerical buttons
Selects numbered options in a menu.

ZOOM
Enlarges DVD/VCD video image.

ANGLE •
Selects a DVD camera angle if available.

SUBTITLE •
Selects a subtitle language.

AUDIO •
Selects an audio language (DVD) or an audio channel (CD).

SLOW •
Forward slow playback of tape.

STOP •
Stops playback.

PAUSE/STEP •
Pause playback or recording temporarily/press repeatedly for frame-by-frame playback.

PLAY •
Starts playback.

REW •
- For fast reverse picture search.
- Rewinds the tape during the STOP mode.

FWD •
- For fast forward picture search.
- Advances the tape during the STOP mode.

SKIP I◀◀ •
- Skip to beginning of current DVD/CD chapter or track, press twice in quick succession to go to previous DVD/CD chapter or track.
- Press and hold for a fast reverse picture search in DVD mode.

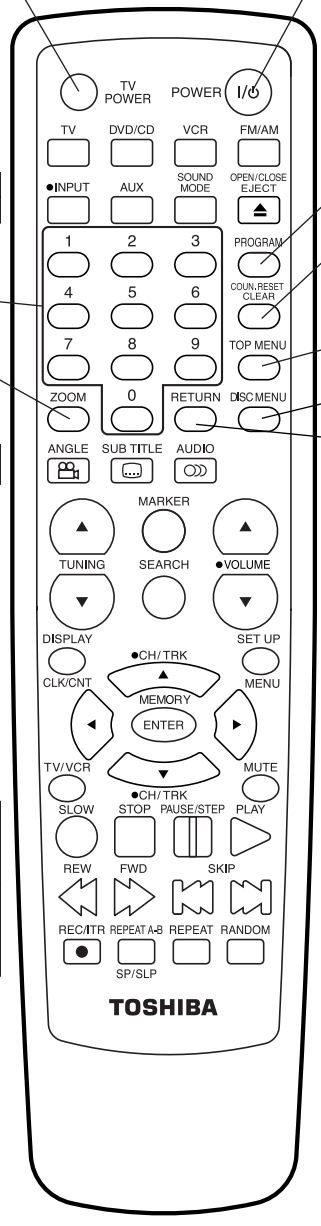
SKIP ▶▶I •
- Skip to next DVD/CD chapter or track.
- Press and hold for a fast forward picture search in DVD mode.

REC/ITR (●) •
Records normally or activates Instant Timer Recording.

REPEAT A-B, SP/SLP •
- Repeats sequence.
- Selects recording speed.

REPEAT •
Repeat chapter, track, title, all.

RANDOM •
Plays tracks in random order.



POWER
Switches DVD/VCR Receiver ON and OFF.

• TV
To control multi-brand TV.

• DVD/CD
To control DVD/CD operating.

• VCR
To control VCR operating.

• FM/AM
Selects the DVD/VCR Receiver's tuner as the listening choice (FM and AM bands).

PROGRAM
Accesses or removes Program menu.

COUNT RESET, CLEAR
- Resets tape counter to 0:00:00
- Removes a track number on the program menu or a mark on the MARKER SEARCH menu.

TOP MENU
Displays the disc's Title menu, if available.

DISC MENU
Accesses menu on a DVD disc.

RETURN
Removes the Setup menu.

TUNING (▲/▼)
To tune in the desired station.

MARKER
Marks any point during playback.

SEARCH
Displays MARKER SEARCH menu.

VOLUME (▲/▼)
-Adjusts volume of speaker.
-Adjusts volume of TV in TV mode.

DISPLAY, CLK/CNT
Accesses On-Screen display.
Switches among the clock, tape counter and tape remaining modes on the display.

◀/▶/▲/▼ (left/right/up/down)
- Selects an option in the menu.
- **CH/TRK (▲/▼)**: Selects VCR channels in VCR mode ; Selects TV channels in TV mode.
- Manually adjusts the tape's picture onscreen in VCR mode.
- ◀/▶ can also change the speed of VCR playback. For example, slow, still, 2x play, 3x play, review and cue.

TV/VCR
To view channels selected by the VCR tuner or by the TV tuner.

ENTER, MEMORY
- Acknowledges menu selection.
- Displays functions on the TV screen.

SETUP, MENU
Accesses or removes DVD Setup menu and VCR menu.

MUTE
Turns off sound from speaker connectors.

Note
This remote control uses the same buttons for VCR and DVD functions (ex. PLAY).
To use the VCR, first press the VCR button.
To use the DVD, first press the DVD/CD button.

Rear Panel

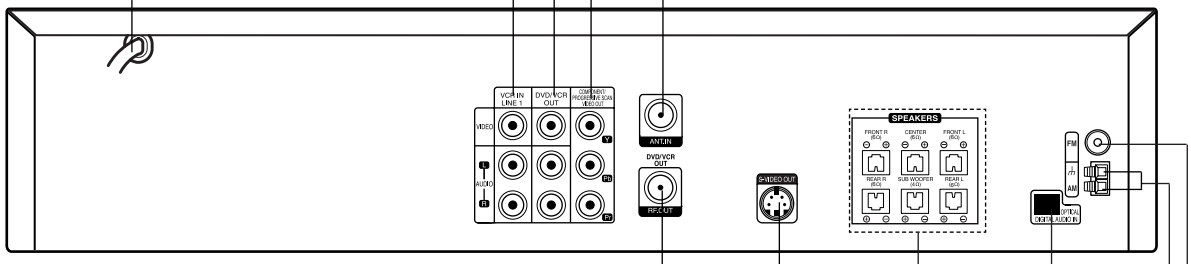
VCR IN LINE 1 (VIDEO IN/AUDIO IN (Left/Right))
Connect the audio/video output of an external source (Audio system, TV/Monitor, Another VCR).

DVD/VCR OUT (VIDEO/AUDIO (Left/Right))
Connect to a TV with video and audio inputs.

COMPONENT/PROGRESSIVE SCAN VIDEO OUT (Y Pb Pr) (DVD OUT)
Connect to a TV with Y Pb Pr inputs. FOR DVD VIEWING ONLY.

AC Power Cord
Plug into the power source.

ANT.IN
Connect the VHF/UHF/CATV antenna to this terminal.



RF.OUT (DVD/VCR OUT)
Connect to a TV with RF coaxial inputs.

S-VIDEO OUT (DVD OUT)
Connect to a S-Video Input on TV. FOR DVD VIEWING ONLY.

SPEAKER Connectors
Connect the six supplied speakers to these terminals.

DIGITAL AUDIO IN (OPTICAL)
Connect to a digital audio output on a digital device.

AM Antenna Connectors
Connect the AM antenna to this terminal.

FM Antenna Connectors
Connect the FM antenna to this terminal.

⚠

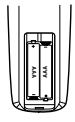
Do not touch the inner pins of the jacks on the rear panel.
Electrostatic discharge may cause permanent damage to the unit.

Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

- **Distance:** About 7m (23ft) from the front of the remote sensor
- **Angle:** About 30° in each direction of the front of the remote sensor

Remote control battery installation



Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with ⊕ and ⊖ aligned correctly.

⚠ **Caution**

Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

IMPORTANT NOTE:
SPENT OR DISCHARGED BATTERIES MUST BE RECYCLED OR DISPOSED OF IN A SAFE MANNER IN COMPLIANCE WITH ALL APPLICABLE LAWS.
FOR DETAILED INFORMATION, CONTACT YOUR LOCAL COUNTY SOLID WASTE AUTHORITY.

Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the DVD/VCR Receiver. Use connections described on pages 11-14.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.

⚠Caution

- Make sure the DVD/VCR Receiver is connected directly to the TV. Tune the TV to the correct video input channel.
- Do not connect the DVD/VCR Receiver's DVD/VCR AUDIO OUT jack to the phono in jack (record deck) of your audio system.
- Do not connect your DVD/VCR Receiver via your VCR. The DVD image could be distorted by the copy protection system.

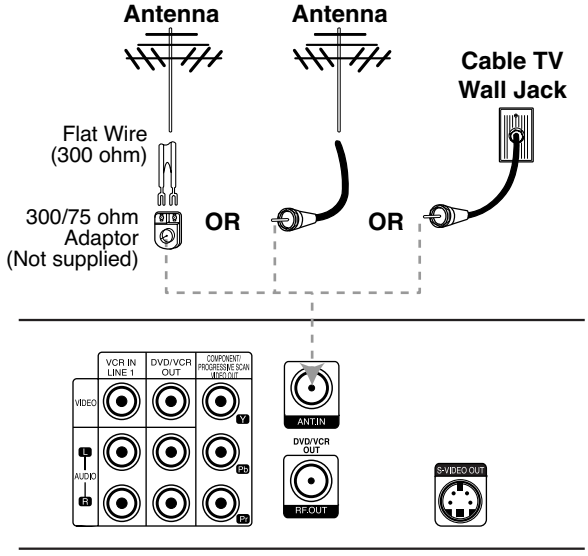
Connecting Antenna/Cable TV to DVD/VCR Receiver

1 Disconnect the antenna leads from the rear of the TV.

2 Identify the type of cable from your antenna. If it is a round cable as illustrated, it is a 75 ohm coaxial antenna cable. This cable will connect directly to the jack marked ANT.IN on your DVD/VCR Receiver.

Tip

If your antenna lead wire is a flat type antenna cable, connect it to an Antenna Adaptor (300-ohm to 75-ohm) (not supplied) and slip the Adaptor onto the ANT.IN jack. The Adaptor does not screw on to the DVD/VCR Receiver, it just slips over the jack.



Rear of DVD/VCR Receiver

Without Cable Box

If your cable wire is connected to your TV without a converter or descrambler box, unscrew the wire from your TV and attach it to the ANT.IN jack on the DVD/VCR Receiver. Use the supplied round coaxial cable to connect between the DVD/VCR Receiver's RF.OUT jack and the 75 ohm antenna input jack on the TV. With this connection, you can receive all midband, super band, and hyperband channels.

With Cable Box

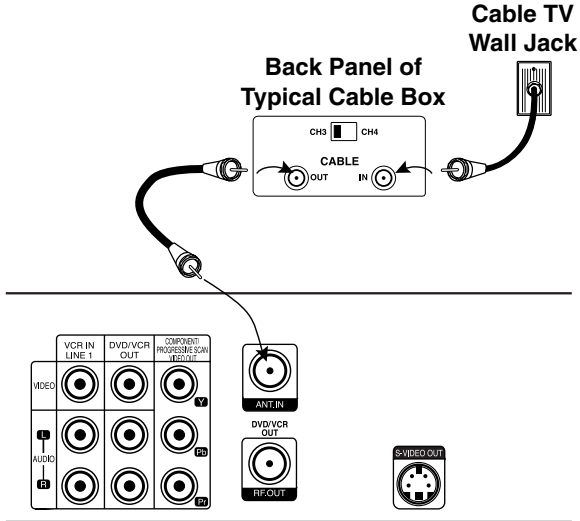
If a converter is required in your cable system, follow the instruction below:
The cable hookup permits both TV and DVD/VCR Receiver operation.

To view or record a CATV channel

1 Tune the TV to the DVD/VCR Receiver output channel (CH 3 or 4).
2 Set the DVD/VCR Receiver channel selector to the output channel of the Cable Converter box using CH/TRK (▲/▼) or number (**0**-**9**) of your DVD/VCR Receiver. (Example: CH3)
3 Select the channel to view at the Cable Converter Box.

Notes

- With this connection, you CANNOT record one program while viewing another.
- If you are using a cable box to tune channels, it is not necessary to do Auto Channel Programming, (Auto Channel Search) as indicated on page 18.



Rear of DVD/VCR Receiver

Basic TV Connections

Make one of the following connections, depending on the capabilities of your TV.

RF coaxial connection

Connect the RF.OUT jack on the DVD/VCR Receiver to the antenna in jack on the TV using the 75-ohm Coaxial Cable supplied **(R)**.

Note

If you use this connection, tune the TV to the DVD/VCR Receiver's RF output channel (CH 3 or 4).

How to set the DVD/VCR Receiver's RF output channel

When the DVD/VCR Receiver is turned off, press and hold CH/PRESET (▲/▼) on the front panel for about five seconds to change the RF output channel (CH 03 or CH 04). "RF-03" or "RF-04" appears in the display window.

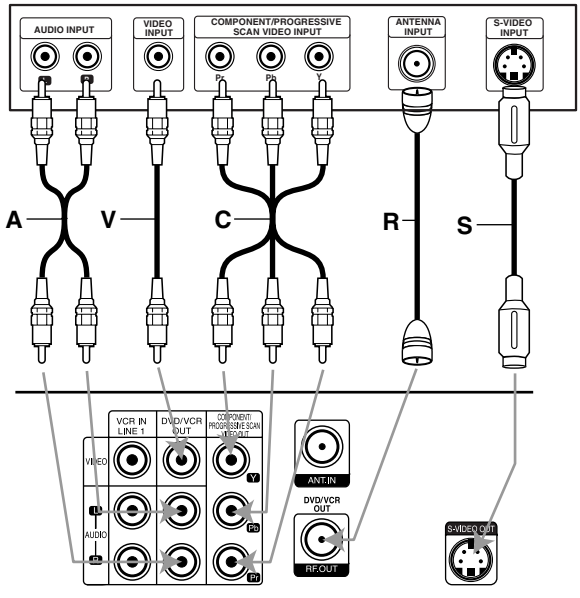
Audio/Video connection

1. Connect the DVD/VCR VIDEO OUT jack on the DVD/VCR Receiver to the video in jack on the TV using the supplied video cable **(V)**.
2. Connect the Left and Right DVD/VCR AUDIO OUT jacks on the DVD/VCR Receiver to the audio left/right in jacks on the TV **(A)** using the supplied audio cables.

Note

If you use this connection, set the TV's source selector to VIDEO.

Rear of TV



Rear of DVD/VCR Receiver

Optional TV Connections

Note

DVD playback can also be done using the S-VIDEO OUT and COMPONENT/PROGRESSIVE SCAN VIDEO OUT connection options below. The tuner and VCR ONLY output through the RF.OUT **(R)** or DVD/VCR OUT **(A, V)** jack. (See left)

S-Video Connection

1. Connect the S-VIDEO OUT jack on the DVD/VCR Receiver to the S-Video in jack on the TV using the S-Video cable **(S)**.
2. Connect the Left and Right AUDIO OUT jacks on the DVD/VCR Receiver to the audio left/right in jacks on the TV using the supplied audio cables **(A)**.

Component Video (Color Stream®) connection

1. Connect the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks on the DVD/VCR Receiver to the corresponding in jacks on the TV using Y Pb Pr cables **(C)**.
2. Connect the Left and Right AUDIO OUT jacks of the DVD/VCR Receiver to the audio left/right in jacks on the TV **(A)** using the supplied audio cables.

Progressive Scan (ColorStream® pro) connection

- If your television is a high-definition or "digital ready" television, you may take advantage of the DVD/VCR Receiver's progressive scan output for the highest video resolution possible.
- If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the DVD/VCR Receiver.

1. Connect the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks on the DVD/VCR Receiver to the corresponding in jacks on the TV using Y Pb Pr cable **(C)**.
2. Connect the Left and Right AUDIO OUT jacks of the DVD/VCR Receiver to the audio left/right in jacks on the TV **(A)** using the supplied audio cables.

Notes

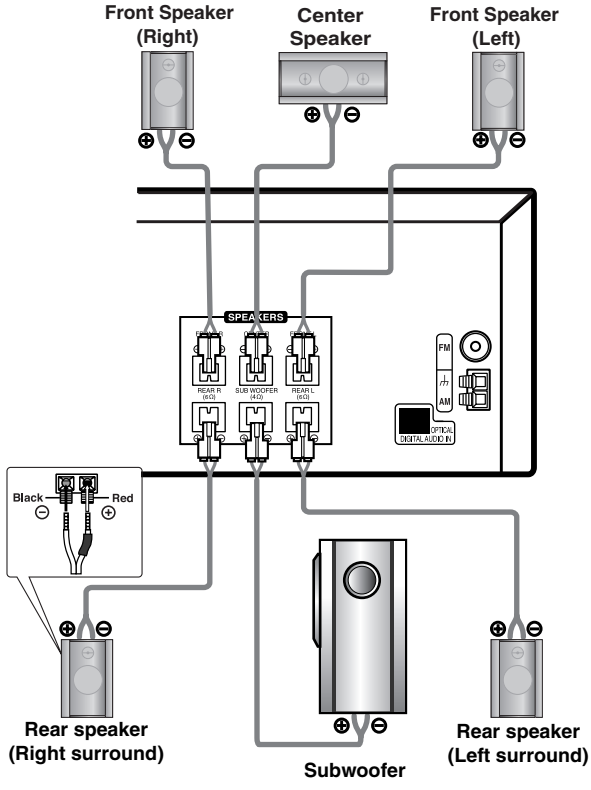
- Set the Progressive Scan to "On" on the DVD setup menu for progressive signal, see page 21.
- Progressive scan does not work with the analog video connections (yellow VIDEO OUT and S-VIDEO OUT jack).

Speaker System Connections

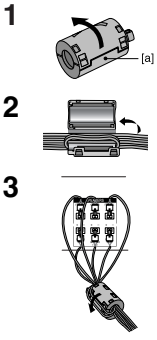
Connect the speakers using the supplied speaker cords by matching the colors of the terminals and those of the cords. To obtain the best possible surround sound, adjust the speaker parameters (distance, level, etc.).

Notes

- Be sure to match the speaker cord to the appropriate terminal on the components: ⊕ to ⊕ and ⊖ to ⊖. If the cords are reversed, the sound will be distorted and lack bass.
- If you use front speakers with low maximum input rating, adjust the volume carefully to avoid excessive volume output to the speakers.
- Do not disassemble the front covers of supplied speakers.



About Ferrite Core



Be sure to attach the ferrite core to the speaker cables (for connecting to this unit).
This ferrite core can reduce noises.

How to attach the ferrite core.

1 Push the stopper [a] of the ferrite core to open.

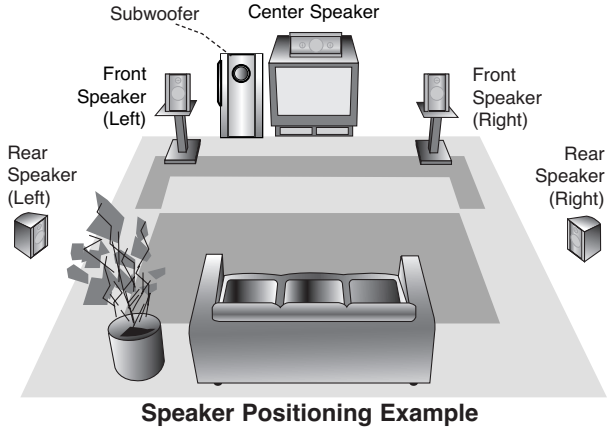
2 Wind the Center and Subwoofer Speaker cables once on the ferrite core.
Pass the others straight on the ferrite core.

3 Close the ferrite core until it clicks.

Speaker Positioning

For a normal setup use 6 speakers (2 front speakers, center speaker, 2 rear speakers and subwoofer).

- **Front Speakers**
  Based on your listening position, set up the speakers at equal distance. And by hearing position, set up an interval between speakers of 45 degree.
- **Center Speaker**
  It is ideal that the center speakers and front speakers are same height. But normally place it above or below the television as shown below.
- **Rear Speakers**
  Place the rear surround speakers to the left and right behind the primary listening area. These speakers recreate sound motion and atmosphere required for surround playback. For best results, do not install the rear speakers too far behind the listening position, install them at or above the level of the listener's ears. It is also effective to direct the rear speakers towards a wall or ceiling to further disperse the sound.
  In the case of a smaller room size, if the audience is near to the rear wall set the rear speakers opposite each other, and set the rear speakers 60 - 90 cm above the listener's ears.
- **Subwoofer**
  This can be placed in any front position.



Speaker Positioning Example

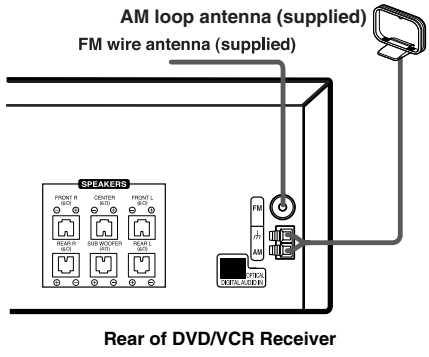
Radio Antenna Connections

Connect the supplied FM/AM antennas for radio listening.

1. Connect the AM loop antenna to the AM antenna connectors.
2. Connect the FM wire antenna to the FM antenna connectors.

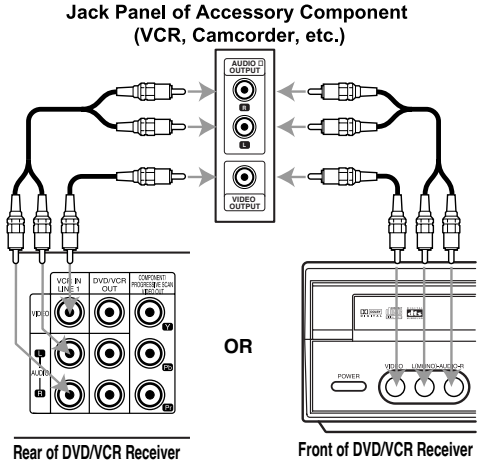
Notes

- To prevent noise pickup, keep the AM loop antenna away from the DVD/VCR Receiver and other components.
- Be sure to fully extend the FM wire antenna.
- After connecting the FM wire antenna, keep it as horizontal as possible.



Accessory Audio/Video (A/V) Connections to DVD/VCR Receiver

Connect the VCR IN LINE1 or LINE2 jacks on the DVD/VCR Receiver to the audio/video out jacks on your accessory component, using optional audio/video cables.

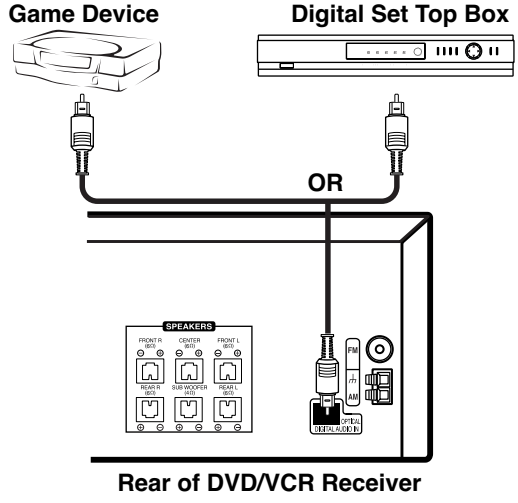


Digital Device Connections

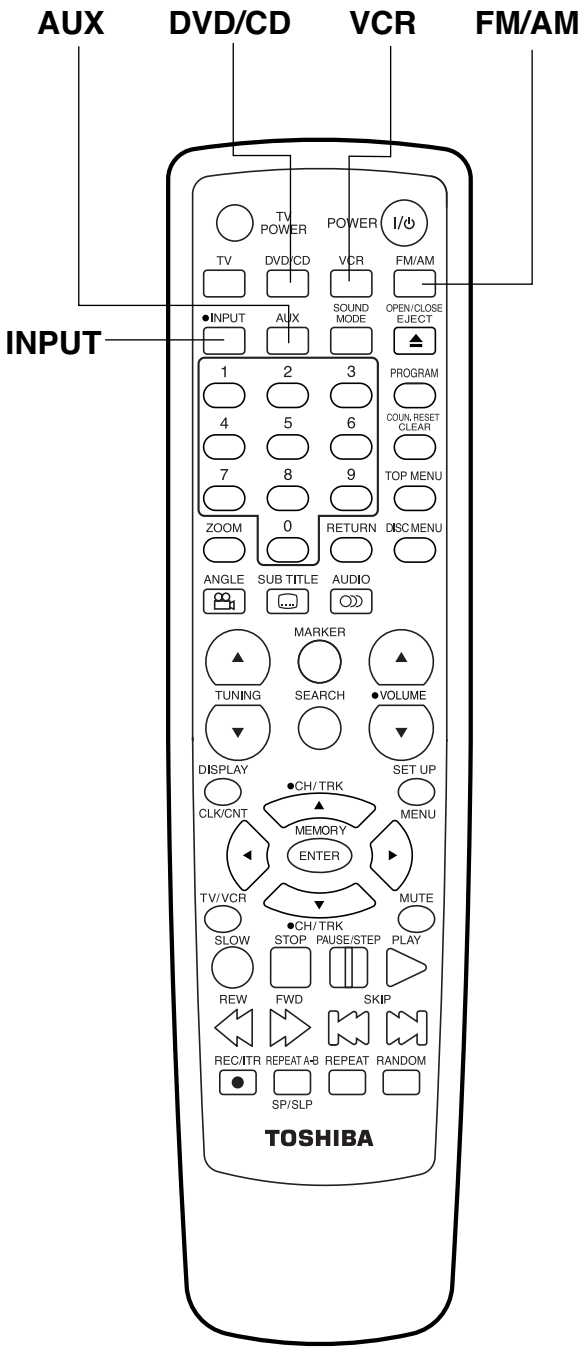
Connect the DIGITAL AUDIO IN (OPTICAL) jacks on the DVD/VCR Receiver to the digital audio out (optical) jacks on your digital device (Game device, Digital Set Top Box, etc.), using optional optical audio cable.
To select source of DVD/VCR Receiver to OPTICAL IN, press AUX on the remote control.

Notes

- If the audio format of the digital output does not match the capabilities of your DVD/VCR Receiver, the DVD/VCR Receiver will produce a strong, distorted sound or no sound at all.
- The Optical input function is available only when the other unit's Sampling Frequency is 32 - 48kHz.



Selecting the Input/Output Source



Follow these guidelines to select and switch among the various DVD/VCR Receiver input and output sources:

- **DVD/CD**

  To view output from the DVD deck:

  Press DVD/CD on the remote or DVD/VCR on the front panel until the DVD indicator on the front panel lights and output from the DVD deck is viewed on the TV screen.

- **VCR**

  To view output from the VCR deck:

  Press VCR on the remote or DVD/VCR on the front panel until the VCR indicator on the front panel lights and output from the VCR deck is viewed on the TV screen.

- **FM/AM**

  To listen to AM/FM radio broadcasts:

  Press FM/AM on the remote to toggle between AM and FM radio. The selected frequency appears on the front panel display.

- **AUX**

  To listen to an audio source connected to the DIGITAL AUDIO IN (OPTICAL) jack with video from LINE 1:

  Press AUX on the remote control once. L1 OPT will appear on the front panel display. Audio will come from an external source connected to the DIGITAL AUDIO IN (OPTICAL) jack and video will come from an external source connected to the VIDEO IN jack of LINE 1 (for rear panel).

  To listen to an audio source connected to the AUDIO IN jack of LINE1 with video from LINE 1:

  Press AUX on the remote control a second time. L1 will appear on the front panel display. Audio will come from an external source connected to the AUDIO IN jacks of LINE1 (for rear panel) and video will come from an external source connected to the VIDEO IN jack of LINE 1 (for rear panel).

- **INPUT**

  To view a source connected to the front or rear LINE inputs:

  First, press VCR to select the VCR deck, and then press INPUT to select LINE1 (L1) (for rear panel) or LINE2 (L2) (for front panel).

Mini Glossary for Audio Stream & Surround mode

dts (DTS)

Allows you to enjoy 5.1(or 6) discrete channels of high quality digital audio from DTS program sources such as discs, DVD and compact discs, etc.bearing the trademark. DTS Digital Surround delivers up to 6 channels of transparent audio(which means identical to the original masters) and results in exceptional clarity throughout a true 360 degree sound field. The term DTS is a trademark of DTS Technology, LLC. Manufactured under license from DTS Technology, LLC.

DD DIGITAL (Dolby Digital)

The Dolby Digital surround format lets you enjoy up to 5.1 channels of digital surround sound from a Dolby Digital program source. If you play DVDs with " DD DOLBY DIGITAL " mark, you can enjoy even better sound quality, greater spatial accuracy, and improved dynamic range.

DD PRO LOGIC (Dolby Pro Logic)

Use this mode when playing movie or Dolby Digital 2 channel which carries the " DD DOLBY SURROUND " mark. This mode provides the effect of being in a movie theater or live concert house-an effect with an intensity which can only be obtained through DOLBY PRO LOGIC SURROUND. The effect of the front/back/left/right movement of the sound image, as well as the sense of fixed position in the sound image, is much clearer and more dynamic than before.

DD PRO LOGIC II (Dolby Pro Logic II)

Dolby Pro Logic II creates five full-bandwidth output channels from two-channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations.

MOVIE mode:
The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced soundfield directionality that approaches the quality of discrete 5.1-channel sound.

MUSIC mode:
The Music mode is for use with any stereo music recordings, and provides a wide and deep sound space. The Music mode includes controls that allow the sound to be tailored to individual listening tastes.

MATRIX mode:
The Matrix mode is the same as the Music mode except that the directional enhancement logic is turned off. It may be used to enhance mono signals by making them seem "larger." The Matrix mode may also find use in auto systems, where the fluctuations from poor FM stereo reception can otherwise cause disturbing surround signals from a logic decoder. The ultimate "cure" for poor FM stereo reception may be simply to force the audio to mono.

3D SURROUND

This unit can produce a 3D Surround effect, using 3D Surround Sound technology, which simulates multi-channel audio playback from two conventional stereo speakers instead of the five or more speakers normally required to listen to multi-channel audio from a home theater. This feature works with DVD discs encoded with Dolby Pro Logic and Dolby Digital audio tracks.

BYPASS

Software with multichannel surround audio signals is played according to the way it was recorded.

Sound Mode

You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the program you want to listen to.

Press **SOUND MODE** repeatedly until the sound mode you want appears in the display window as below.

Each time you press **SOUND MODE** button, the sound mode is changed in the following order;

BYPASS → PRO LOGIC → MOVIE → MUSIC → MATRIX → 3D SURR

When DVD is inserted.

You can change the sound mode of DVD (Dolby Digital, DTS, PCM, etc) by pressing the **AUDIO** button on the remote during playback.
Although the DVD contents differ from disc to disc, the following explains the basic operation when this feature is used.

Each time you press **AUDIO** button, the sound mode of DVD is changed as the following order;

DD DIGITAL → dts → PCM → DD DIGITAL

Note
Depending on discs format, you may not be able to change the sound mode.

For your reference

- **The DVD/VCR Receiver memorizes the last mode settings for each source individually.**
- **You can identify the encoding format of program software by looking at its packaging.**
  - Dolby Digital discs are labelled with the DD DOLBY DIGITAL logo.
  - Dolby Surround encoded programs are labelled with the DD DOLBY SURROUND logo.
  - DTS Digital Surround discs are marked with DTS.

Note
When you play sound tracks with 96kHz sampling frequency, the output signals will be converted to 48kHz (sampling frequency).

Volume Control

You can adjust the volume by rotating VOLUME on the front panel or by pressing VOLUME (▲/▼) on the remote control repeatedly.

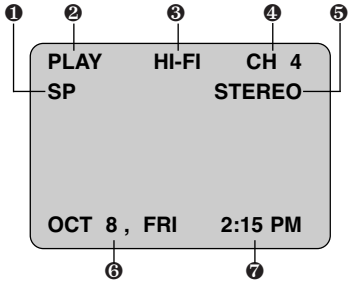
Muting

Press MUTE to mute your unit.
You can mute your unit in order, for example, to answer the telephone, "MUTE" indicator in the display window. To exit mute mode, press MUTE again.

On-Screen Display (OSD)

Set the Output Source to VCR as shown in "Selecting the Input/Output Source" on page 15.

Some of these functions appear during VCR operated.



❶ TAPE SPEED DISPLAY
Shows the current tape speed.

❷ FUNCTION DISPLAY
Indicates the current function.

❸ HI-FI DISPLAY
Indicates the unit is playing back tape recorded in Hi-Fi.

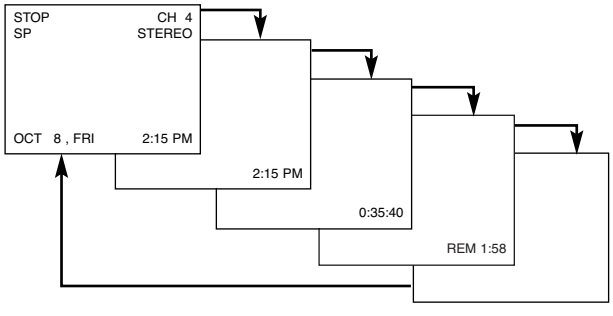
❹ CHANNEL DISPLAY
Indicates the selected channel (or LINE1(L1), LINE2(L2)).

❺ STEREO/SAP DISPLAY (MONO is not displayed)
Shows the type of audio signal received by the VCR tuner.

❻ DATE DISPLAY
Shows the current date. (Month/Date/Day of the week format)

❼ CLOCK/COUNT/REMAIN DISPLAY
Shows the current time, the tape counter and remaining time on the tape.

Each press of the **ENTER** changes the TV on-screen displays in the following sequence.



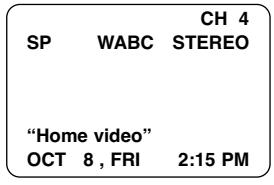
Notes

- The function displays remain on the TV screen for 5 seconds.
- The clock (or tape counter, tape remaining) mode will remain on the screen until you press **ENTER**.
- The tape counter and the remaining tape length indicator appear only when a cassette is inserted. Also, the remaining tape length indicator appears after any tape operation.

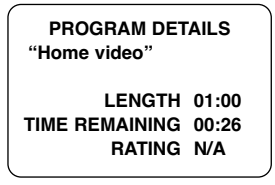
EASY INFORMATION

If the Extended Data Service (XDS) signals are provided along with normal TV signal in your area or during playback of a tape recorded with Extended Data Service (XDS) signals, the station ID, program title, and program details are shown on the TV screen.
When viewing a channel with Extended Data Service (XDS) signals, press **ENTER** and the station ID will appear on the TV screen. Press **ENTER** again and the program details will appear on the TV screen.
When viewing a tape recorded with Extended Data Service (XDS) signals, press **ENTER** twice and the program title and program details will appear on the TV screen.

PROGRAM DETAILS
LENGTH: Indicates the run length of a program.
TIME REMAINING: Indicates the remaining time of a program.
RATING: Indicates the rating of the current program (N/A, G, PG, PG-13, R, NC-17, X and Not Rated). The rating N/A means that the motion picture ratings are not applicable to this program.



Easy Information Screen (Station ID)



Easy Information Screen (Program details)

On-Screen Menus Setup

The SETUP, clock setting (CLOCK), and timer recordings (PROGRAM) are accessed conveniently with the on-screen menus, that lead you through each step. The following pages describe the on-screen menu selections available.

Menu Selection

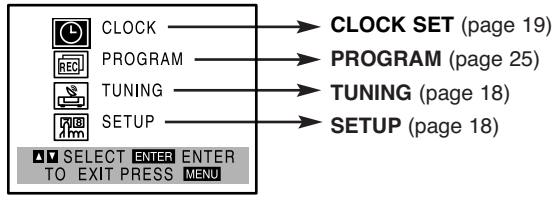
Your VCR allows remote control adjustment of several features.

1 Press MENU and the MAIN menu will appear.

2 Select the desired menu with ▲/▼ button and then press ENTER.

Note
Menus remain on-screen for 3 minutes.

MAIN MENU

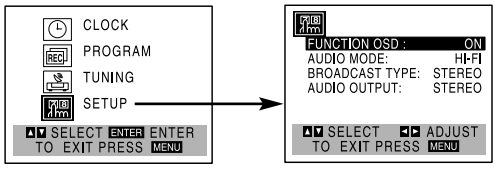


3 Press MENU when finished.

VCR Setup Menu Options

1 Press MENU and the MAIN menu will appear.

2 Use ▲/▼ to select the SETUP menu, then press ENTER.
The SETUP menu will appear.



3 Use ▲/▼ to choose a desired option on the SETUP menu. Then use ◄/► to choose a desired setting.

FUNCTION OSD
The on-screen display of this DVD/VCR Receiver can be turned on or off.
- FUNCTION OSD can be switched between ON and OFF using ◄/►.

AUDIO MODE
The DVD/VCR Receiver has two separate audio playback systems, the high quality VHS Hi-Fi system and standard NORMAL mono system. The same audio is generally recorded on both systems. The VHS Hi-Fi system plays on separate (left and right) channels, and the NORMAL system plays monaural sound. The normal track is always played so the cassette can be played on a DVD/VCR Receiver that does not have VHS Hi-Fi.
- AUDIO MODE can be switched between HI-FI and NORMAL using ◄/►.

BROADCAST TYPE (STEREO/SAP/MONO)
Multichannel Television Sound (MTS) carries stereo and/or Second Audio Program (SAP) bilingual signals. Set this display to the desired position when both MTS stereo and SAP signals are received. When only one of the MTS signal is received, the DVD/VCR Receiver automatically selects the corresponding receiving mode (Stereo or SAP) regardless of the selected position. For normal operation, the display should be in the STEREO position. The DVD/VCR Receiver will then record a STEREO program when available, and record a mono program IF the program is NOT IN STEREO.
For weak STEREO and/or SAP broadcasts, changing the display to mono may give clearer sound.
- BROADCAST TYPE can be switched between STEREO, SAP, and MONO using ◄/►.

AUDIO OUTPUT (STEREO/LEFT/RIGHT)
Used during playback [when AUDIO MODE (HI-FI/NORMAL) is in HI-FI position] for selecting the audio output signals from the AUDIO OUT terminals (L ch and R ch), and RF.OUT.
This display setting should normally be left in the stereo position, so that when a stereo tape is played, the stereo sound will be heard through the left and right channels. If a mono tape is played and the audio output is set to stereo, the same mono sound will be heard from both left and right channels.
- AUDIO OUTPUT can be switched between STEREO, LEFT, and RIGHT using ◄/►.

4 Press MENU when finished.

Channel Selection

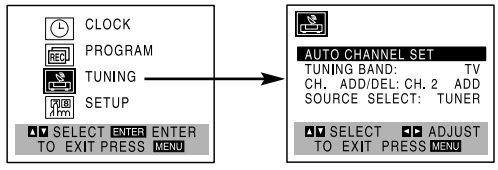
This DVD/VCR Receiver is equipped with a frequency synthesized tuner capable of receiving up to 181 channels. These include VHF channels 2-13, UHF channels 14-69 and CATV channels 1-125.

Preparation:
Connect the DVD/VCR Receiver to the desired type of antenna or cable TV system, as shown in Connecting Antenna/Cable TV to DVD/VCR Receiver on page 11.

AUTO CHANNEL PROGRAMMING

1 Press MENU and the MAIN menu will appear.

2 Use ▲/▼ to select the TUNING menu, then press ENTER.
The TUNING menu will appear.



3 Use ▼ to choose the SOURCE SELECT option, then use ◄/► to select TUNER.
Press ◄/► repeatedly to switch between TUNER, LINE1(L1) and LINE2(L2).

4 Use ▲/▼ to choose the AUTO CHANNEL SET option, then use ◄/► to search for channels.
The tuner will automatically cycle through all available channels in the area and place them in the tuner's memory.

5 After the AUTO CHANNEL SET PROCEEDING is complete, make sure the TUNING BAND is set appropriately (TV or CATV) using ▲/▼ and choosing the correct TUNING BAND (TV or CATV) by using ◄/► while in the TUNING menu.
Remember, TV is for the air antenna reception, CATV is for cable or wireless cable connection.

6 Press MENU to return to the TV screen.

7 Use CH/TRK (▲/▼) on the remote control or CH/PRESET (▲/▼) on the front panel to cycle the DVD/VCR Receiver through the channels in memory.

TO ADD OR ERASE CHANNELS FROM MEMORY
This feature allows you to add or erase channels in memory manually.

1 Press ▼ to choose the CH. ADD/DEL option on the TUNING menu. Use ◄/► to select a channel to add or erase.

2 Press **ENTER** to add or erase the channel. Repeat steps 1 and 2 to add or erase channels.

3 Press **MENU** to return to the TV screen.

Setting the Clock

The DVD/VCR Receiver gives you two ways to set the time and date: the Auto Clock Feature or manually. The Auto Clock feature enables the DVD/VCR Receiver to set up the clock while the DVD/VCR Receiver is turned off.

Things to know before starting

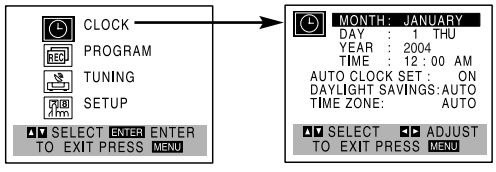
- The clock uses the 12-hour system. (Be sure to set AM and PM correctly.)
- The initial Clock Setting is **JANUARY 1, 2004, 12:00 AM**.

Auto Clock Set

The Auto Clock Set feature is set to ON at the factory. In the ON setting, the DVD/VCR Receiver looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time.
The Auto Clock feature enables the DVD/VCR Receiver to set up the clock while the DVD/VCR Receiver is turned off.

1 **Press MENU and the MAIN menu will appear.**

2 **Use ▲/▼ to choose the CLOCK menu.**
Press ENTER and the CLOCK menu will appear.



3 **Use ▼ to choose the AUTO CLOCK SET option.**
Use ◄/► to choose ON.
The Auto Clock Set feature is set to ON at the factory. In the ON setting, the DVD/VCR Receiver looks for a channel carrying XDS (Extended Data Services) information. XDS updates the clock using the Coordinated Universal Time.

4 **Use ▼ to choose the DAYLIGHT SAVINGS option.**
Use ◄ or ► to choose AUTO, ON, or OFF.
If you choose AUTO, the DVD/VCR Receiver sets the clock using the DST information broadcast in the signal (channel). If you choose ON, the DVD/VCR Receiver adjusts the clock for Daylight Saving Time automatically.

5 **Use ▼ to choose the TIME ZONE option.**
Use ◄ or ► to choose the correct time zone (AUTO, EASTERN, CENTRAL, MOUNTAIN, PACIFIC, ALASKA or HAWAII).
If "AUTO" is selected as the time zone, the DVD/VCR Receiver sets the clock using the first Coordinated Universal Time information it finds in a broadcast signal.

6 **Press MENU when finished.**

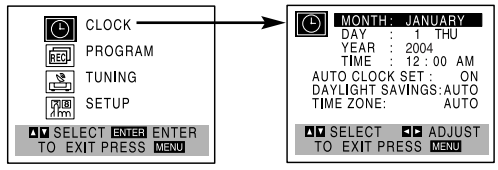
7 **Turn off the DVD/VCR Receiver and the auto clock set feature sets the time.**

Note
There are cases where the TV station does not send or sends the wrong time. Therefore, the incorrect time will be set. If this happens we recommend that you set the clock manually.

Manual Clock Set

1 **Press MENU and the MAIN menu will appear.**

2 **Use ▲/▼ to choose the CLOCK menu.**
Press ENTER and the CLOCK menu will appear.



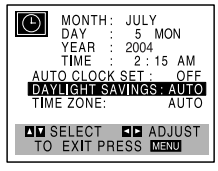
3 **Use ◄/► to choose the month.**

4 **Use ▼ to choose the DAY option.**
Use ◄/► to choose the date.
The day of the week will display automatically.

5 **Use ▼ to choose the YEAR option.**
Use ◄/► to choose the year.

6 **Use ▼ to choose the TIME option.**
Use ◄/► to choose the time.
Press and hold ◄/► to advance clock continuously.

7 **Use ▼ to choose the DAYLIGHT SAVINGS option.**
Use ◄ or ► to choose AUTO, ON, or OFF.
If you choose AUTO, the VCR sets the clock using the DST information broadcast in the signal (channel).
If you choose ON, the VCR adjusts the clock for Daylight Saving Time automatically.



8 **Press MENU when finished.**

Note
If setting the clock manually, "AUTO CLOCK SET" must set to "OFF".
If set to "ON", an incorrect date and/or time will be entered again when the DVD/VCR Receiver is turned off.

General Explanation

This manual gives basic instructions for operating the DVD/VCR Receiver. Some DVDs require specific operation or allow only limited operation during playback. When this occurs, the symbol ⃠ appears on the TV screen, indicating that the operation is not permitted by the DVD/VCR Receiver or is not available on the disc.

On-Screen Display

Set the Output Source to DVD as shown in "Selecting the Input/Output Source" on page 15.

General playback status can be displayed on the TV screen. Some items can be changed on the menu.

On-screen display operation

1. **Press DISPLAY during playback.**
2. **Press ▲/▼ to select an item.**
   The selected item will be highlighted.
3. **Press ◀/▶ to change the setting of an item.**
   The number buttons can be also be used for setting numbers (e.g., title number). For some functions, press ENTER to execute the setting.

Temporary Feedback Field Icons

- TITLE — Repeat Title
- CHAPT — Repeat Chapter
- TRACK — Repeat Track (non-PBC Video CDs and Audio CD only)
- ALL — Repeat Disc (non-PBC Video CDs and Audio CD only)
- A B — Repeat A-B
- OFF — Repeat Off
- ▮▮■ — Resume play from this point
- ⃠ — Action prohibited or not available

Notes

- Some discs may not provide all of the features on the on-screen display example shown below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

DVD

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Title Number	1/3	**Shows the current title number and total number of titles, and** skips to the desired title number.	◀ / ▶, or Numbers, ENTER
Chapter Number	1/12	**Shows the current chapter number and total number of chapters, and** skips to the desired chapter number.	◀ / ▶, or Numbers, ENTER
Time search	-:--:--	**Shows the elapsed playing time, and** searches the point directly from the elapsed time.	Numbers, ENTER
Audio language and Digital Audio Output mode	1 ENG DD 5.1 CH	**Shows the current audio soundtrack language, encoding method, and channel number, and** changes the setting.	◀ / ▶, or AUDIO
Subtitle language	OFF	**Shows the current subtitles language, and** changes the setting.	◀ / ▶, or SUBTITLE
Angle	1/1	**Shows the current angle number and total number of angles, and** changes the angle number.	◀ / ▶, or ANGLE
Sound	BYPASS	**Shows the current sound mode, and** changes the setting.	◀ / ▶, or SOUND MODE

VCD2.0 **VCD1.1**

Items		Function (Press ▲/▼ to select desired item)	Selection Method
Track Number	1/4	**Shows the PBC On mode or current track number, total number of tracks and** skips to the desired track number.	◀ / ▶, or Numbers, ENTER
Time	0:16:57	**Shows the elapsed playing time (Display only)**	–
Audio Channel	STER.	**Shows the audio channel, and** changes the audio channel.	◀ / ▶, or AUDIO
Sound	BYPASS	**Shows the current sound mode, and** changes the setting.	◀ / ▶, or SOUND MODE

Initial Settings

You can set your personal preferences on the DVD/VCR Receiver.

General Operation

1 Press SETUP.
The Setup menu appears.

2 Use ▲/▼ to select the desired option.
The screen will show the current setting for the selected option, as well as alternate setting(s).

3 While the desired option is selected, press ▶, then ▲/▼ to select the desired setting.

4 Press ENTER to confirm your selection.
Some options require additional steps.

5 Press SETUP, RETURN, or PLAY to exit the setup menu.

Language

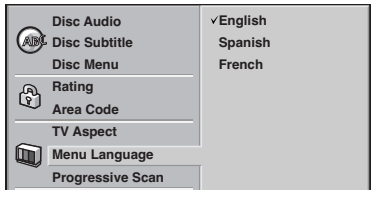
Disc Language DVD

Select a language for the disc's Menu, Audio, and Subtitle features.
Original : The original language set for the disc is selected.
Other : To select another language, use number buttons to enter the corresponding 4-digit number according to the language code list on page 44. If you enter the wrong language code, press CLEAR.

Note
Disc Language selection may not work for some DVDs.

Menu Language

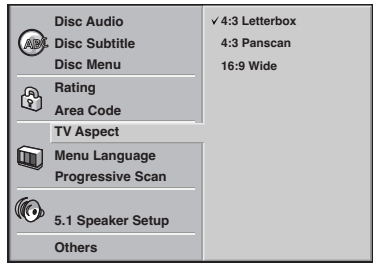
Select a language for the VCR and DVD Setup menu. This is the menu you see when you press SETUP.



Picture

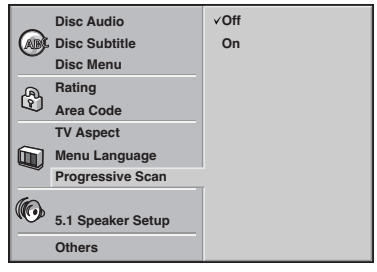
TV Aspect DVD

4:3 Letterbox: Select when a standard 4:3 TV is connected. Displays pictures with masking bars above and below the picture.
4:3 Panscan: Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Both sides of the picture are cut off.
16:9 Wide: Select when a 16:9 wide TV is connected.



Progressive Scan DVD

Progressive Scan Video provides the highest resolution pictures with less flicker and line structure.
If you are using the COMPONENT/PROGRESSIVE SCAN VIDEO OUT jacks, but are connecting the DVD/VCR Receiver to a standard (analog) television, set Progressive Scan to Off.
If you are using the Component Video jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to On.



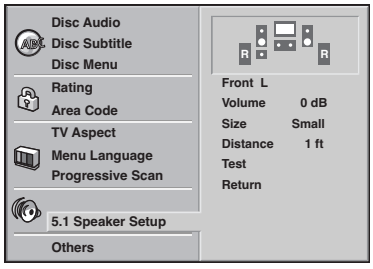
⚠Caution
Once the setting for progressive scan output is entered, an image will only be visible on a progressive scan compatible TV or monitor. If you set Progressive Scan to On in error, you must reset the unit.
1) Remove any disc from the unit and close the disc tray. See that "NO DISC" is displayed on the display window.
2) Press STOP (■) and hold it for more then five seconds before releasing it. The video output will be restored to the standard setting and a picture will once again be visible on a conventional analog TV or monitor.

Speaker setup

5.1 Speaker settings DVD

Select speaker settings, including volume balance and distance, or test the speaker settings.

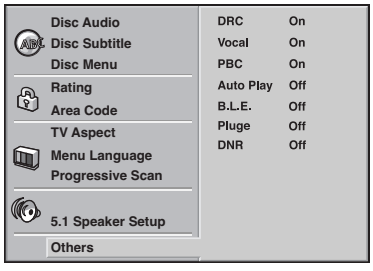
Speaker settings are only active on the Analog Multi-Channel Output. (See “Speaker Setup”, page 37.)



Others

The DRC, Vocal, PBC, Auto Play, B.L.E., Pluge and DNR settings can be changed.

- Use ▲/▼ to select the desired item and press ENTER. The setting of the selected item is changed between On and Off.



Dynamic Range Control (DRC) DVD

With the DVD format, you can hear a program’s soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). Then, you may listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect.

Vocal DVD

Set Vocal to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into normal stereo sound.

PBC VCD2.0 VCD1.1

Set Playback Control (PBC) to On or Off.

On: Video CDs with PBC are played according to the PBC.

Off: Video CDs with PBC are played the same way as Audio CDs.

Auto Play DVD

You can set up the DVD/VCR Receiver so a DVD disc automatically starts playing whenever the DVD is inserted.
If Auto Play mode is set to On, this DVD/VCR Receiver will search a title where playback time is longest and then play back the title automatically.

On: Auto Play function is activated.

Off: Auto Play function is not activated.

Note

The Auto Play function may not work for some DVDs.

B.L.E. (Black Level Expansion)

DVD VCD2.0 VCD1.1

To select the black level of playback pictures. Set your preference and monitor’s ability.

On: Expanded grey scale. (0 IRE cut off)

Off: Standard grey scale. (7.5 IRE cut off)

Pluge (Blacker than Black) DVD

For proper adjustment of your television brightness settings utilizing a commercially available test disc.

On: Select when you adjust the level of your TV using a commercially available test disc that contains pluge signals.

Off: For normal use.

DNR (Digital Noise Reduction)

DVD VCD2.0 VCD1.1

You can reduce ambient noise in the picture.

DNR1: Normal level

DNR2: Expanded level.

Off: Off.

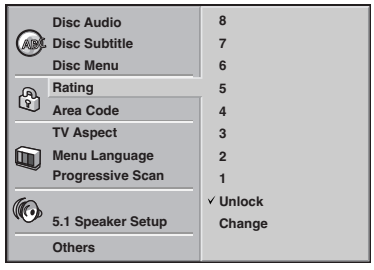
Notes

- Actual picture enhancement may vary depending on the quality of the disc.
- While the DNR2 (expanded level) can provide additional improvement in the reduction of noise in the video signal, it may produce undesirable picture artifacts on some discs. Should this occur, select a more appropriate DNR level (normal or off).
- Depending on the disc, some picture detail may be lost by the picture enhancement.

Parental Control

Rating DVD

Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country dependent. DVD video discs may or may not respond to the parental control setting if the Area code of the disc is set wrongly. The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes.



1 **Select Rating on the Setup menu using ▲/▼ buttons in stop mode.**

2 **While Rating is selected, press ▶.**

3 **When you have not entered a password yet.**
Enter a 4-digit password using the numbered buttons to create a personal 4-digit security password, then press ENTER. Enter the 4-digit password again and press ENTER to verify.
When you have already entered a password;
Enter a 4-digit password using the numerical buttons to confirm the personal 4-digit security password, then press ENTER.

If you make a mistake before pressing ENTER, press CLEAR and enter 4-digit security password again.

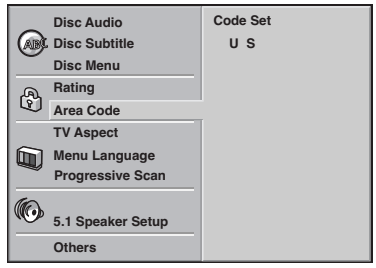
4 **Select a rating from 1 to 8 using ▲/▼ buttons.**
One (1) has the most playback restrictions. Eight (8) has the least playback restrictions. The limitation will be more severe as the level number decreases.
Unlock: If you select Unlock, Parental Control is not active. The disc will play in full.
Ratings 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the DVD, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.

5 **Press ENTER to confirm your rating selection, then press SETUP to exit the menu.**

6 **Press OPEN/CLOSE to activate the Parental Control. If the rating set is lower than the disc rating, a message will appear. Select "YES" if you want to continue playback and input the password followed by ENTER.**

Area Code DVD

Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See "Country/Area Code List", page 45).



1 **Select Area Code using the ▲/▼ buttons on the setup menu.**

2 **While Area Code is selected, press ▶.**

3 **Follow step 3 of "Rating" on left.**

4 **Select the first character using the ▲/▼ buttons.**

5 **Press ▶ to shift to second character and select the second character using ▲/▼ buttons.**

6 **Press ENTER to confirm your Area code selection, then press SETUP to exit the menu.**

Note
Confirmation of the 4-digit password is necessary when the password is changed (see Changing the 4-digit password below).

Changing the 4-digit password

1 Follow Steps 1-2 as shown above to the left (Rating).
2 Enter the old password, then press ENTER.
3 Select Change using ▲/▼ buttons then press ENTER.
4 Enter the new 4-digit password, then press ENTER.
5 Enter exactly the same password a second time and verify by pressing ENTER.
6 Press SETUP to exit the menu.

If you forget your 4-digit password

If you forget your password, to clear the current password follow the procedure below.

1 Press SETUP to display the setup menu.
2 Enter the 6-digit number 210499.
The 4-digit password is cleared.
3 Enter a new password as shown above to the left (Rating).

Normal Playback

Preparation:

- Turn on the TV.
- Tune the TV to the DVD/VCR Receiver output channel (CH 3 or 4) or set the TV's source selector to VIDEO.
- If a direct VIDEO/AUDIO connection is made between the DVD/VCR Receiver and the TV, set the TV's source selector to VIDEO.
- Set the Output Source to VCR as shown in "Selecting the Input/Output Source" on page 15.

1 Insert a prerecorded video cassette.
The ⊙⊙ indicator will light and the DVD/VCR Receiver will power-up automatically.

- Make sure that the ◷ indicator in the display window is not lighted. If it is, press **POWER** once.
- If a tape without a safety tab is inserted, the unit will start playback automatically.

2 Press PLAY once.
PLAY appears on the TV screen .

- It is not necessary to select the tape speed for playback. It will be automatically selected by the DVD/VCR Receiver.
- In playback, the **TV/VCR** selector switches to VCR mode automatically.

3 Press STOP to stop playback.
STOP appears on the TV screen.

- If the tape reaches the end before STOP is pressed, the DVD/VCR Receiver will automatically stop, rewind and eject the tape, and it will turn itself off.

Tracking Control

Auto Tracking

The automatic tracking function adjusts the picture to remove snow or streaks.

The AUTO TRACKING function works in the following cases:

- A tape is played back for the first time.
- Tape speed (SP, SLP) changes.
- Streaks or snow appear because of scratches on the tape.

Manual Tracking

If noise appears on the screen during playback, press either **CH/TRK ▲/▼** on the remote control or **CH/PRESET (▲/▼)** on the front panel until the noise on the screen is reduced.

- If vertical jitter is present, adjust tracking controls very carefully.
- Tracking is automatically reset to normal when the tape is ejected or the power cord is unplugged for more than 3 seconds.

Special Effect Playbacks

Special effects playback notes

- Horizontal lines (noise bars) will appear on the TV screen. This is normal.
- The audio is automatically muted during special effect modes, so there is no sound during search.
- During high-speed picture search mode, a short period is needed to stabilize tape speed when re-entering the PLAY mode. Slight interference may be observed during this period.

Search

This function lets you quickly and visually search for a desired tape section in either direction: forward or reverse.

1 Press REW ◄◄ or FWD ►► during playback. The DVD/VCR Receiver will be activated in the SEARCH mode.
2 To return to playback, press PLAY.

Still Picture and Frame-by-Frame Playback

1 Press PAUSE/STEP during playback.
Still picture will appear on the TV screen.

- If a still picture vibrates vertically, stabilize it using CH/TRK(▲/▼) on the remote control.
- If the DVD/VCR Receiver is left in the STILL mode for more than 5 minutes, the DVD/VCR Receiver will automatically enter the STOP mode to protect the tape and video heads.

2 Press PAUSE/STEP repeatedly to advance the video picture one frame at a time while viewing a still picture.
3 To return to playback, press PLAY.

Slow Motion

1 Press SLOW.

The tape will be played back at a speed 1/19 times slower than the normal speed.

- During slow playback, use CH/TRK (▲/▼) on the Remote Control to minimize noise bands.
- If slow motion mode continues for more than 3 minutes, the DVD/VCR Receiver will automatically change to playback mode.

2 To return to playback, press PLAY.

Variable playback speed control

During Playback use ◄/►, you can reach the following playback speeds.
(-7xplay (REV), -3xplay (-3PLY), -play (-PLAY), still (STILL), 1/19 slow (SLOW), play (PLAY), 2xplay (2PLY), 7xplay(CUE)).
During slow motion and shuttle, the noise bars may appear on the picture according to the status of tape. If distortions can be seen in the picture, reduce them with **CH/TRK** (▲/▼) on the remote control.

Normal Recording

Preparation:
- Turn on the power of both the DVD/VCR Receiver and TV.
- Tune the TV to the DVD/VCR Receiver output channel (CH 3 or 4) or set the TV's source selector to VIDEO.
- If a direct VIDEO/AUDIO connection is made between the DVD/VCR Receiver and the TV, set the TV's source selector to VIDEO.

1 Insert a video cassette with the safety tab intact.

2 Select the desired channel with CH/TRK ▲/▼ or number (0-9) buttons.
If you are recording from another source via audio/video input jacks (at the Rear or Front panel), select LINE1(L1) or LINE2(L2) with **INPUT**.

3 Set the desired recording speed (SP or SLP) with the SP/SLP button.

4 Set the MTS mode as desired (See page 18, 28).

5 Press REC/ITR (●) once.
Recording will start. (The REC indicator will light in the display window.)
- REC indicator appears only when the Output Source is set to VCR.
- If a cassette with no safety tab is loaded, the cassette will be ejected automatically.

6 Press STOP to stop recording.
If the tape reaches the end before STOP is pressed, the DVD/VCR Receiver will automatically stop, rewind, eject the tape and turn itself off.

To pause recording

1 Press PAUSE/STEP to pause the tape during recording.
The REC indicator will flash in the display window.

2 When you want to continue recording, press PAUSE/STEP or REC/ITR (●).
- After 5 minutes in Pause mode, the tape will be stopped automatically to protect the tape and the video heads.

To record one TV program while watching another

1 Use TV/VCR to select the TV mode during recording.
"TV" appears in the display window.

2 Using the TV, select the channel to be viewed.

Tips

Always use PAUSE/STEP for best results when making changes during recording.
For example: To change channels during recording, first press PAUSE/STEP to put the unit in pause mode. Select the desired channel on the DVD/VCR Receiver, then press PAUSE/STEP again to resume recording.

Timer Recording

This DVD/VCR Receiver can be programmed to record up to 8 programs within a period of 1 year. For unattended recording, the timer needs to know the channels to be recorded and the starting and ending times.

Things to know before starting

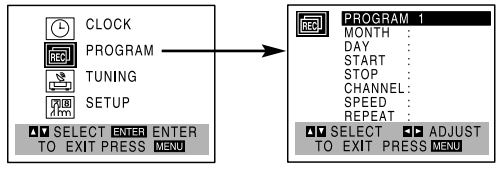
- If you try to set the program timer before setting the clock, PLEASE SET THE CLOCK appears for a moment and then CLOCK menu appears on the TV screen. Set the time and date before proceeding.
- Make sure a tape is in the DVD/VCR Receiver and the safety tab is in place or the tape will be automatically ejected.

Preparation:
- Turn on the power of both the DVD/VCR Receiver and the TV.
- Be sure the TV is set to the DVD/VCR Receiver output channel (CH3 or CH4).
- Make sure the TUNING BAND in the TUNING menu is set appropriately (TV or CATV).

1 Press MENU and the MAIN menu will appear.

2 Use ▲/▼ to choose the PROGRAM menu.

3 Press ENTER to go to the PROGRAM menu.
The PROGRAM menu will appear.
- If all 8 programs have been entered, FULLY PROGRAMMED message will appear for a moment and then PROGRAM 1 will appear on the TV screen.



4 Use ◀/▶ to choose the PROGRAM No. (1-8).

5 Use ▼ to choose the MONTH option.
Use ◀/▶ to choose the desired month.

6 Use ▼ to choose the DAY option.
Use ◀/▶ to choose the desired day.

7 Use ▼ to choose the START option.
Use ◀/▶ to choose the desired start time.

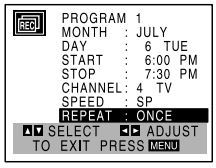
8 Use ▼ to choose the STOP option.
Use ◀/▶ to choose the desired stop time.

9 Use ▼ to choose the CHANNEL option.
Use ◀/▶ to choose the desired channel (Channel, LINE1(L1) or LINE2(L2)).

Cable Users: If you have CABLE TV and used Cable Box in Connecting Antenna/Cable TV to DVD/VCR Receiver (page 11), using a cable box converter, you must set the channel in this step to match the cable box output channel (usually CH 3 or 4). Change channels on the cable box instead of with the DVD/VCR Receiver.

10 **Use ▼ to choose the SPEED option. Use ◀/▶ to choose the desired recording speed (AUTO, SP or SLP).**
AUTO mode determines how much tape is left and switches speed from SP to SLP, if necessary, to complete recording the program. There will be some picture and sound distortion at the point of the speed change.

11 **Use ▼ to choose the REPEAT option. Use ◀/▶ to choose the desired repeat (ONCE, WEEKLY or DAILY).**
ONCE event....for recording up to 8 programs on a single day or over the days within a period of 1 year.
WEEKLY event....for recording up to 8 programs on a certain day of every week.
DAILY event....for recording up to 8 programs at the same time(s) Monday through Friday.



Tip

If the input data is wrong, use ▲ to select the data and correct it using ◀/▶.

12 **Press MENU, the program will be memorized by the DVD/VCR Receiver.**

- ◷ indicator lights in the display window.
- If the program preset time has past, the PAST TIME PROGRAMMED message will appear on the TV screen. Return to the incorrect program and program it with the correct time.
- If you had entered a past date, timer recording will be performed on that date of the next year.
- Additional programs may be entered by repeating steps **1-12**.

Cable Users: If your cable hookup is via a TV converter box, you can program multiple recordings only on the converter box output channel. This is because the converter determines what channel you view through your DVD/VCR Receiver.

Tip

If you have finished programming and you want to set the DVD/VCR Receiver to record the programs you have entered, **MAKE SURE YOU HAVE INSERTED A TAPE INTO THE DVD/VCR Receiver.** The DVD/VCR Receiver is now set to record the preset programs.

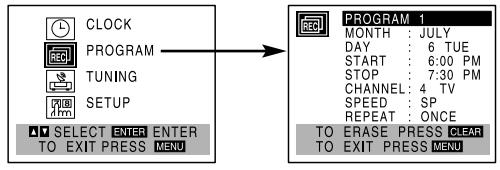
Notes

- If the power fails or the DVD/VCR Receiver is unplugged from the AC outlet, the correct clock time and timer settings are kept in memory for approximately 3 seconds. After 3 seconds, the clock and program timer must be reset when power is restored. Reset the clock according to instructions.
- After setting up a timer recording, recording will start if no other timer recordings are scheduled to occur at the same time (see “Program Priority” at right).

Checking (Erasing) Timer Record Programming

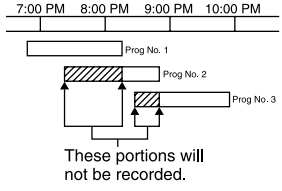
Programming can be checked whenever the DVD/VCR Receiver is turned on.

1 Press **MENU** and the MAIN menu will appear.
2 Use ▲/▼ to choose the PROGRAM menu. Press **ENTER** and the PROGRAM menu will appear.



3 Use ◀/▶ to select a program you want to check or erase. If you want to erase the program, press **CLEAR**.
4 Press **MENU** to return to the TV screen.

Program Priority



If the starting and ending times of two or more timer recordings overlap on the same day, priority is given to the earliest recording. For example, in the diagram at left PROGRAM 2 will not be recorded until PROGRAM 1 is finished. The first part of PROGRAM 2 will not be recorded. Likewise, PROGRAM 3 will not be recorded until PROGRAM 2 is finished, and so on.

Instant Timer Recording

Instant Timer Recording allows you to make a recording easily of a preset length without using the programmable timer.

Preparation:

- Turn on the power of both the DVD/VCR Receiver and the TV.
- Be sure the TV is tuned to the DVD/VCR Receiver output channel (CH3 or 4).
- If a direct VIDEO/AUDIO connection is made between the DVD/VCR Receiver and the TV, set the TV's source selector to VIDEO.

1 **Insert a video cassette with the safety tab intact.**

2 **Select the desired channel with CH/TRK ▲/▼ or number (0-9) buttons.**
The channel number appears on the TV screen.
- If you are recording from another source via audio/video input jacks (at the Rear or Front panel), select LINE1(L1) or LINE2(L2).

3 **Select the desired recording speed (SP or SLP) with the SP/SLP button.**
The tape speed will appear on the TV screen.

4 **Press REC/ITR (●) twice.**
The menu as illustrated, will appear on the TV screen.
- Recording will start. (The ◷ indicator will light)

5 **Press REC/ITR (●) repeatedly to select the recording time length.**
At the end of the recording, the DVD/VCR Receiver will stop recording and shut off.
- During Instant Timer Recording, changing the channel on the DVD/VCR Receiver will not be possible.
- You can stop the recording by pressing STOP.

INSTANT TIMER RECORD MENU

```
INSTANT TIMER RECORD

CHANNEL     2
SPEED       SP

START       NOW
LENGTH      0H30M
```

0H30M ..... 9H00M → 0H00M

Length Display (each additional press of REC/ITR (●) increases recording time 30 minutes)

Checking the Recording Time

Press REC/ITR (●) once to check the recording time. The recalled setting will automatically return to the TV screen after 6 seconds.

To extend the Recording Time

The recording time can be extended anytime by pressing REC/ITR (●).
Subsequent presses result in advancing the recording time by 30-minute increments.

Notes

- If you press PAUSE/STEP during instant timer recording, the DVD/VCR Receiver will enter the recording pause mode. Instant timer recording is cancelled.
- If the DVD/VCR Receiver is set to "0H00M", the DVD/VCR Receiver goes to normal recording mode.

Dubbing and Editing

If you wish to edit or dub your camcorder (or another VCR) recordings to this DVD/VCR Receiver, the rear (or Front) panel mounted Audio and Video (A/V) input jacks make the connections quick and easy. These direct A/V jacks will also provide better picture results than using the RF jack on the rear panel.

1 **Connect the camcorder's (or another VCR's) A/V outputs to your DVD/VCR Receiver as illustrated on page 14.**

2 **Select the input channel "LINE2" (Use INPUT to select LINE2(L2)).**
If you have connected your DVD/VCR Receiver to the A/V input jacks on the rear of DVD/VCR Receiver, you should select the input channel LINE1(L1) by pressing **INPUT** twice.

3 **Play the tape in the camcorder (or another VCR). If you have a TV attached to your DVD/VCR Receiver, you can see the video playing.**

4 **When you desire the recording to begin, press DVD/VCR Receiver's REC/ITR (●) once to start.**
You can stop the recording by pressing STOP.

Note

Before recording, please confirm the recording start position.

Copying from DVD to VCR

This unit allows you to copy the contents of a DVD to a VHS tape.
Press DVD/CD to select DVD mode.

1 **Insert Disc**
Insert the disc you wish to copy in the DVD deck and close the disc tray.

2 **Insert VHS Tape**
Insert a blank VHS video tape into the VCR deck.

3 **Press COPY button on the unit front panel or press REC/ITR (●) button on the remote control.**
The DVD will go into Play mode and the VCR will go into Record mode.
- If the DVD disc menu appears, you may need to press **PLAY** manually to begin copying.
- "COPY" indicator will light.

4 **Stopping the Copy Process**
When the DVD is finished playing, press STOP to end copying.
You must stop the Copy process manually when the DVD movie ends, or the unit may replay and record over and over again.

Note

- If the DVD you are attempting to copy is copy protected, you will not be able to copy the disc. It is not permitted to copy Macrovision encoded DVDs. "LOCK" is displayed in the display window.
- When you stop the DVD playback during copying, VCR recording mode also stops automatically.
- You must set Progressive Scan to Off to copy process.

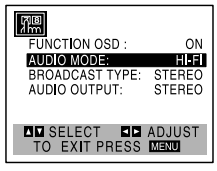
VHS Hi-Fi Stereo System/ MTS Broadcast

This DVD/VCR Receiver is equipped with the VHS Hi-Fi audio sound system for recording and playback. The information below gives a brief description of Hi-Fi audio and how to record and play a tape in the Hi-Fi audio mode.

Playback with Hi-Fi Stereo Audio Sound

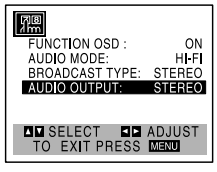
A stereo TV with AUDIO/VIDEO input jacks or a stereo audio system is required for true stereo playback. To experience the full and rich stereo sound available with Hi-Fi recorded tapes, we recommend the connection of this unit to a home stereo audio system.

1 Set the AUDIO MODE option to HI-FI on the SETUP menu .



2 Set the AUDIO OUTPUT option to STEREO position.

STEREO: The left channel sound (L) is heard from the left speaker and the right channel sound (R) is heard from the right speaker.
LEFT: The left channel sound (L) is heard from both speakers.
RIGHT: The right channel sound (R) is heard from both speakers.



3 Press MENU.

4 Insert a cassette and press PLAY.
Adjust volume at your stereo system.

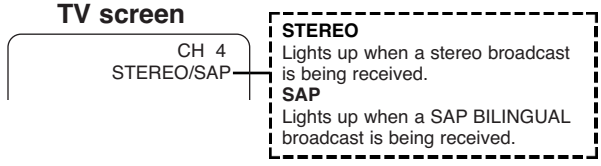
MTS (Multi-Channel TV Sound)

This DVD/VCR Receiver will decode MTS stereo and bilingual (SAP) off-the-air broadcast sound signals. It also decodes stereo TV sound from local cable companies, as long as they operate on assigned cable frequencies and use the EIA-recommended MTS stereo/bilingual TV sound system.

Multichannel TV Sound Indicator (MTS)

Shows onscreen as illustrated below when **ENTER** is pressed.

- One or both of the indicators will light, depending on the MTS broadcast.



If only STEREO appears on the TV screen.
The DVD/VCR Receiver can record in stereo onto the VHS Hi-Fi audio tracks when the BROADCAST TYPE option is in the STEREO position. The DVD/VCR Receiver will also record mono audio onto the mono audio track.

If only SAP appears on the TV screen.
Set the BROADCAST TYPE option to SAP.

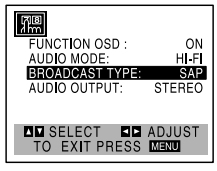
If STEREO/SAP appears on the TV screen
Use the BROADCAST TYPE option to select the desired recording mode (STEREO or SAP).

SAP (Second Audio Program) Recording

Some stations transmit a Second Audio Program, which is used for a second language or additional information. When the station broadcasts a Second Audio Program, follow the procedure below to record the SAP.

1 Insert a video cassette with the safety tab intact.

2 Set the BROADCAST TYPE option to SAP (SETUP menu).
Do this if only the SAP appears on the TV screen or you know the program will use the SAP.



3 Press MENU.

4 Select the desired recording speed (SP or SLP) with the SP/SLP button.

5 Select the desired channel. SAP should appear on the TV screen.

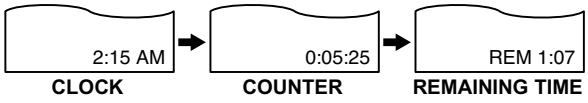
6 Press REC/ITR (●) once
You are now recording the program you see and hear on the TV.

7 Press STOP to stop recording.

Tape Counter Memory Feature

Real-Time Counter

Shows length of tape run in hours, minutes, and seconds. Press **CLK/CNT** to select the real-time counter display.
Every press of **CLK/CNT** changes the TV screen as illustrated below.



- Counter changes to “0:00:00” when the cassette is ejected.
- The real-time counter does not operate if nothing is recorded on the tape.
- The real-time counter will not work unless a tape is inserted.

Note
During the “L1 OPT” mode, the OSD(On Screen Display) can not be changed.

Counter Memory Feature

This is useful if there is a section of tape you want to view immediately after recording or if you want to return to the same point several times.

1. **Begin recording or playing a tape.**
2. **Press CLK/CNT repeatedly to display the real-time counter on the TV screen.**
3. **At the point that you want to locate later, reset the real-time counter to “0:00:00” by pressing CLEAR.**
4. **Continue to play or record.**
5. **Press STOP when recording or playback finishes.**
6. **Press REW ◄◄.**
   The tape automatically stops when the tape counter returns to about “0:00:00”.

Tape Remaining

This function shows the remaining time on the tape during recording or playback.
Press **CLK/CNT** repeatedly until the REM indicator displays on the TV screen during recording or playback.

Note
The remaining tape length indicator may not be displayed correctly depending on the condition of the tape and the kind of the tape (T-140, T-160, or T-210 etc)

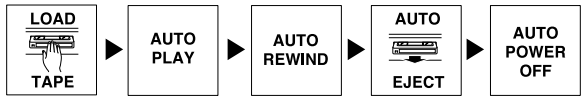
Additional Information

- In manual recording, Timer recording, Instant Timer Recording, playback, or fast forward modes, the DVD/VCR Receiver automatically starts rewinding the tape at the end of the tape. The cassette will stop at the beginning of the tape and be ejected, and the DVD/VCR Receiver will turn itself off.
- After you have finished using the DVD/VCR Receiver, rewind, eject, and remove the cassette. Place the cassette in its protective sleeve to protect it from dust. It is not necessary to rewind the cassette before removing it, but if you do, it will be ready to play or record the next time you use it.
- Be sure the DVD/VCR Receiver Channel Selector is on the correct channel you wish to record. The channel that is being recorded can always be checked by tuning the television to the DVD/VCR Receiver channel (3 or 4) and pressing the **VCR** button to set the DVD/VCR Receiver to VCR mode (VCR appears in the display window).
- Do not attempt to hook up more than one television set to the DVD/VCR Receiver for either recording or playback.

Auto Play System

This DVD/VCR Receiver features automatic playback.
Load a cassette (with the safety tab removed).

- The Output Source is changed to VCR mode automatically.
- The power turns on automatically and playback begins.
- At the end of the tape, the DVD/VCR Receiver stops and rewinds the tape.
- The cassette is ejected after rewinding and the VCR turns itself off automatically.



Note
Auto power off does not function during regular DVD play mode. (DVD/VCR Receiver power stays on.)

S-VHS Quasi Playback (SQPB)

- This DVD+VCR can also play back a tape which is recorded in S-VHS playback picture.
- This DVD+VCR cannot record in S-VHS format
- SQPB is an abbreviation for S-VHS Quasi Playback.

Playing DVD and Video CD

Playback Setup DVD VCD2.0 VCD1.1

- Turn on the TV and select the video input source connected to the DVD/VCR Receiver.
- Audio system: Turn on the audio system and select the input source connected to the DVD/VCR Receiver.
- Set the Output Source to DVD as shown in "Selecting the Input/Output Source" on page 15.

1 Press OPEN/CLOSE (⏏) to open the disc tray.

2 Load your chosen disc in the tray, with the label facing up.
When a double-sided DVD is inserted, make sure the side you want to play is facing down.

3 Press OPEN/CLOSE (⏏) to close the tray.
"READING" appears in the display window, and playback starts automatically. If playback does not start, press PLAY.
In some cases, the disc menu might appear instead.

If a menu screen is displayed

A menu screen may appear automatically after loading a DVD.

DVD

Use ◄/►/▲/▼ buttons to select the title/chapter you want to view, then press ENTER to start playback.
Press **TOP MENU** or **DISC MENU** to return to the menu screen.

VCD2.0

- Use the number buttons to select the track you want to view.
  Press RETURN to return to the menu screen.
- Menu setting and the exact operating procedures for using the menu may differ depending on the disc. Follow the instructions on the each menu screen. You also may set PBC to Off under setup. See page 22.

Notes

- If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit password must be entered and/or the disc must be authorized (see Parental Control, on page 23).
- DVDs may have a Region Code.
  Your DVD/VCR Receiver will not play discs that have a Region Code different from your DVD/VCR Receiver. The Region Code for this DVD/VCR Receiver is 1 (one).
- Do not keep a fixed image displayed on the screen for a long time.

General Features

Note

Unless stated otherwise, all operations described use the remote control. Some features may also be available on the Setup menu.

Moving to another TITLE

DVD

If a disc has more than one title, you can move to another title as follows:

- Press DISPLAY, then press the appropriate number buttons (0-9) to select a title number.

Moving to another CHAPTER/TRACK

DVD VCD2.0 VCD1.1

If a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:

- Press **SKIP** ⏮ or ⏭ briefly during playback to return to the beginning of the current chapter/track or to select the next chapter/track.
- Press **SKIP** ⏮ twice in quick succession to step back to the previous chapter/track.
- To go directly to any chapter/track during playback, press DISPLAY. Use ▲/▼ to select Chapter/track icon. Then, enter the chapter/track number with the number buttons (0-9).

Note

For two-digit numbers, press the numbered buttons (0-9) in rapid succession.

Slow Motion DVD VCD2.0 VCD1.1

1 Press **SLOW** during playback or still mode.
The player will enter SLOW mode.
2 Use **SKIP** ⏮ or ⏭ (or **SLOW**) to select the required speed:
◀❙ 1/16, ◀❙ 1/8, ◀❙ 1/4, ◀❙ 1/2 (backward), or
❙▶ 1/16, ❙▶ 1/8, ❙▶ 1/4, ❙▶ 1/2 (forward).
3 To return to playback, press PLAY.

Note

Slow motion playback in reverse is not applicable for Video CD.

Still Picture and Frame-by-Frame Playback DVD VCD2.0 VCD1.1

1 Press PAUSE/STEP during playback.
The DVD/VCR Receiver will go into PAUSE mode.
2 You can advance the picture frame by frame by pressing PAUSE/STEP repeatedly on the remote control.
3 To return to playback, press PLAY.

General Features (Continued)

Search DVD VCD2.0 VCD1.1

1 Press REW ◀◀ or FWD ▶▶ during playback.
The DVD/VCR Receiver will now go into SEARCH mode.
2 Each press of the REW ◀◀ or FWD ▶▶ button will increase the speed of the search ◀◀X2, ◀◀X4, ◀◀X16, ◀◀X100 (backward) or ▶▶X2, ▶▶X4, ▶▶X16, ▶▶X100 (forward).
With a Video CD, the Search speed changes: ◀◀X2, ◀◀X4, ◀◀X8, (backward) or ▶▶X2, ▶▶X4, ▶▶X8, (forward).
3 To return to playback, press PLAY.

Random Karaoke DVD VCD2.0 VCD1.1

1 Press RANDOM during playback or in Stop mode. The unit automatically begins Random Playback and "RANDOM" appears on the TV screen.
2 To return to normal playback, press RANDOM until "NORMAL" appears on the TV screen.

Tips

By pressing **SKIP I◀◀** or **▶▶I** during Random playback, the unit selects another title (track) and resumes Random playback.

Note

- This function only works with DVD Karaoke discs and Video CD without PBC.
- On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Random function. See page 22.

Repeat DVD VCD2.0 VCD1.1

DVD Video Discs - Repeat Chapter/Title/Off

1 To repeat the currently playing chapter, press REPEAT.
The Repeat Chapter icon appears on the TV screen.
2 To repeat the title currently playing, press REPEAT a second time.
The Repeat Title icon appears on the TV screen.
3 To exit Repeat mode, press REPEAT a third time.
The Repeat Off icon appears on the TV screen.

Video CDs - Repeat Track/All/Off

1 To repeat the track currently playing, press REPEAT.
The Repeat Track icon appears on the TV screen.
2 To repeat the disc currently playing, press REPEAT a second time.
The Repeat All icon appears on the TV screen.
3 To exit Repeat mode, press REPEAT a third time.
The Repeat Off icon appears on the TV screen.

Note

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Repeat function. See page 22.

Repeat A-B

DVD VCD2.0 VCD1.1

To repeat a sequence in a title:

1 Press REPEAT A-B at your chosen start point.
" A * " appears briefly on the TV screen.
2 Press REPEAT A-B again at your chosen end point.
"A B" appears briefly on the TV screen, and the repeat sequence begins.
3 To cancel the sequence, press REPEAT A-B.

3D Surround

DVD VCD2.0 VCD1.1

This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system.

1 Press SOUND MODE to select "3D SUR" during playback.
2 To turn off the 3D Surround effect, press SOUND MODE again to select "BYPASS".

Time Search DVD

The Time Search function allows you to start playing at any chosen time on the disc.

1 Press DISPLAY during playback. The on-screen display appears on the screen.
The Time Search box shows the elapsed playing time of the current disc.
2 Within 10 seconds, use ▲/▼ to select the Time Search icon in the on-screen display.
The "-:--:--" appears in the Time Search box.
3 Within 10 seconds, use the numbered buttons to enter the required start time. Enter hours, minutes and seconds from left to right in the box.
If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers.
4 Within 10 seconds, press ENTER.
Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.

Zoom DVD VCD2.0 VCD1.1

The Zoom function allows you to enlarge the video image and to move through the enlarged image.

1 Press ZOOM during playback or still playback to activate the Zoom function.
If you press ZOOM repeatedly, the magnification level increases up to six steps.
2 Use ◀/▶/▲/▼ buttons to move through the zoomed picture.
3 Press CLEAR to resume normal playback or return to the paused image.

Notes

- The Zoom function may not work with some DVDs.
- The Zoom function may not work with some multi-angle scenes.

General Features (Continued)

Marker Search DVD VCD2.0 VCD1.1

You can start playback from a memorized point. Up to nine points can be memorized.
To enter a mark, follow these steps.

1 During disc playback, press MARKER when playback reaches the spot that you want to memorize.
The Marker icon will appear on the TV screen briefly.
2 Repeat step 1 to enter up to nine Marker points on a disc.

To Recall a Marked Scene

1 During disc playback, press SEARCH.
The Marker Search menu will appear on the screen.
2 Within 10 seconds, use ◀/▶ or number button to select a Marker number that you want to recall.
3 Press ENTER.
Playback will start from the Marked scene.
4 To remove the MARKER SEARCH menu, press SEARCH.

To Clear a Marked Scene

1 During disc playback, press SEARCH.
The Marker Search menu will appear on the screen.
2 Within 10 seconds, use ◀/▶ or number button to select a Marker number that you want to erase.
3 Press CLEAR.
The Marker number will be erased from the list.
4 Repeat steps 2 and 3 to erase additional Marker numbers.
5 To remove the MARKER SEARCH menu, press SEARCH.

- All markers are erased when the disc is ejected.

Changing Video Mode DVD

- With certain discs, the playback picture may be flickering or Dot Crawl is shown on straight lines. That means Vertical interpolation or De-interlace is not perfectly matched with the disc. In this case, the picture quality may be improved by changing the video mode.
- To change the video mode, press and hold DISPLAY about 3 seconds during disc playback. The new video mode selected is displayed on the TV screen. Check whether the video quality has improved. If not, repeat the above procedure until picture quality is improved.
- Video mode sequence:
Auto → Film → Video → Auto
- If you turn off the power, the video mode will return to initial default state (Auto).

Detailed Description of each Video Mode

Auto : The source material of the DVD video (film material or video material) is determined from disc information.

Film : Suitable for playing film based content or video based material recorded by the progressive scan method.

Video : Suitable for playing video based content with comparatively little motion.

Note

The video mode setting only works when the Progressive Scan mode is set to “On” in the Setup menu.

Special DVD Features

Checking the contents of DVD Video discs: Menus

DVDs may contain menus that allow you to access special features. To use the disc menu, press **DISC MENU**. Then, press the appropriate number button to select an option. Or, use ◀/▶/▲/▼ buttons to highlight your selection, then press **ENTER**.

Title Menu DVD

1 Press **TOP MENU**.
If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.
2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title.
3 To remove the title menu, press **TOP MENU** again.

Disc Menu DVD

1 Press **DISC MENU.**
The disc menu is displayed.
2 To remove the disc menu, press **DISC MENU** again.

Camera Angle DVD

If the disc contains sequences recorded from different camera angles, the angle icon blinks on the TV screen. You can then change the camera angle if you wish.

- Press **ANGLE** repeatedly during playback to select a desired angle.
The number of the current angle appears on the display.

Changing the Audio Language

DVD

Press **AUDIO** repeatedly during playback to hear a different audio language or audio track.

Changing the Audio Channel

VCD2.0 VCD1.1

Press **AUDIO** repeatedly during playback to hear a different audio channel (STER., LEFT or RIGHT).

Subtitles DVD

Press SUBTITLE repeatedly during playback to see the different subtitle languages.

Note

If ⃠ appears, the feature is not available on the disc.

Screen Saver

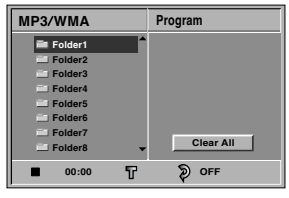
The screen saver picture appears when you leave the DVD/VCR Receiver in Stop mode for about five minutes.

Playing an Audio CD and MP3/WMA Discs CD MP3 WMA

The DVD/VCR Receiver can play MP3/WMA formatted recordings on CD-ROM, CD-R or CD-RW discs. Before playing MP3/WMA discs, read the notes on MP3/WMA Recordings on right.

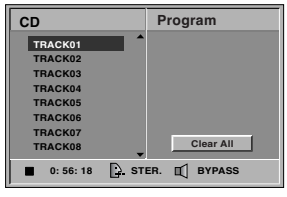
1 **Insert a disc and close the tray.**
Audio CD: Audio CD menu appears on the TV screen go to step 4.
MP3/WMA disc: The MP3/WMA-JPEG choice menu appears on the TV screen. Go to step 2.

2 **Use ▲/▼ to select the MP3/WMA then press ENTER.**
The MP3/WMA menu appears on the TV screen. Press RETURN to move to the MP3/WMA-JPEG choice menu.

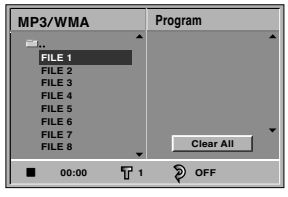


3 **Use ▲/▼ to select a folder then press ENTER.**
A list of files in the folder appears.

4 **Use ▲/▼ to select a track then press PLAY or ENTER.**
Playback starts.
During playback, the current track's elapsed playing time will appear on the display window and menu.
Playback will stop at the end of the disc.
Press TOP MENU to move to the next page.
Press DISC MENU to move to the previous page.



Audio CD Menu



MP3/WMA Menu

Tip

If you are in a File List and want to return to the Folder List, use the ▲/▼ to highlight .. and press ENTER to return to the previous menu screen.

5 **To stop playback at any other time, press STOP.**

Notes on MP3/WMA Recordings

About MP3

- An MP3 file is audio data compressed by using the MPEG1 audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files".
- The DVD/VCR Receiver can not read an MP3 file that has a file extension other than ".mp3".

About WMA (Window Media Audio) Files

- An WMA file is a Microsoft audio compression technology.
- WMA(Windows Media Audio) offers double the audio compression of the MP3 format.

MP3/WMA Disc compatibility with this player is limited as follows:

1. Sampling Frequency / only at 44.1kHz (MP3), 22.05 - 44.1kHz (WMA)
2. Bit rate / within 32 - 320kbps (MP3), 32 - 128kbps (WMA)
3. CD-R physical format should be "ISO 9660"
4. If you record MP3/WMA files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3/WMA files. We recommend that you use "Easy-CD Creator", which creates an ISO9660 file system.
5. A single session disc requires MP3/WMA files in the first track. If there is no MP3/WMA file in the 1st track, it cannot playback MP3/WMA files. If you wish to playback MP3/WMA files, format all the data in the disc or use a new one.
6. File names should be named using 8 letters or less and must incorporate ".mp3" or ".wma" extension e.g. "********.MP3" or "********.WMA".
7. Do not use special letters such as "/ : * ? " < > " etc.
8. Total number of files on the disc should be less than 650.

This DVD/VCR Receiver requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files). That require certain pre-existing conditions (see above) to insure compatible playback.

Customers should also note that permission is required in order to download MP3/WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

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Designed for Windows Media™

Pause CD MP3 WMA

1 Press PAUSE/STEP during playback.

2 To return to playback, press PLAY or press PAUSE/STEP again.

Moving to another Tracks CD MP3 WMA

- Press **SKIP** ⏮ or ⏭ briefly during playback to go to the next track or to return to the beginning of the current track.
- Press **SKIP** ⏮ twice in quick succession to step back to the previous track.
- On Audio CDs, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback.

Search CD MP3 WMA

1 Press REW ◀◀ or FWD ▶▶ during playback.
The player will now go into SEARCH mode.

2 Each press of the REW ◀◀ or FWD ▶▶ button will increase the speed of the search ◀◀X2, ◀◀X4, ◀◀X8 (backward) or ▶▶X2, ▶▶X4, ▶▶X8 (forward).
Search speed and direction are indicated on the menu screen.

3 To exit SEARCH mode, press PLAY.

Random CD MP3 WMA

1 Press RANDOM during playback or in Stop mode. The unit automatically begins Random Playback and “RAND.” appears on the menu screen.

2 To return to normal playback, press RANDOM repeatedly until “RAND.” disappears from the menu screen.

Note
RANDOM only works in File List of MP3 and WMA discs.

Repeat Track/All/Off CD MP3 WMA

1 To repeat the track currently playing, press REPEAT.
The Repeat icon and “TRACK” appears on the menu screen.

2 To repeat all tracks on a disc, press REPEAT a second time.
The Repeat icon and “ALL” appears on the menu screen.

3 To cancel Repeat mode, press REPEAT a third time.
The Repeat icon and “OFF” appears on the menu screen.

Repeat A-B CD

To repeat a sequence.

1 During disc playback, press REPEAT A-B at your chosen starting point.
The Repeat icon and “A * ” appears on the menu screen.

2 Press REPEAT A-B again at your chosen end point.
The Repeat icon and “A B” appears on the menu screen, and the sequence begins to play repeatedly.

3 To exit the sequence and return to normal play, press REPEAT A-B again.
The Repeat icon and “OFF” appears on the menu screen.

3D Surround CD

This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system.

1 Press SOUND MODE to select “3D SUR” during playback.

2 To turn off the 3D Surround effect, press SOUND MODE again to select “BYPASS”.

Changing the Audio Channel CD

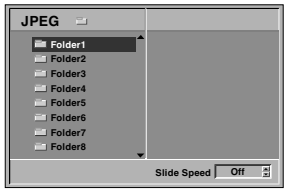
Press **AUDIO** repeatedly during playback to hear a different audio channel (STER., LEFT, or RIGHT).

Viewing JPEG Files on a Disc JPEG

This DVD/VCR Receiver can play discs with JPEG files. Before playing JPEG files, read the notes on JPEG Files on right.

1 Insert a disc and close the tray.
The MP3/WMA-JPEG choice menu appears on the TV screen.

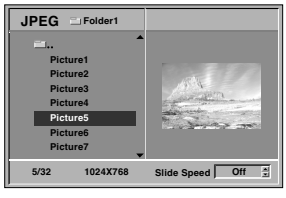
2 Use ▲/▼ to select the JPEG then press ENTER.
The JPEG menu appears on the TV screen.



3 Use ▲/▼ to select a folder, and ENTER.
A list of files in the folder appears.
Press RETURN to move to the MP3/WMA-JPEG choice menu.

Tip
If you are in a file list and want to return to the Folder list, use the ▲▼ buttons on the remote to highlight " .. " and press ENTER to return to the previous menu screen.

4 If you want to view a particular file, use ▲/▼ to highlight the file and press ENTER or PLAY.
Viewing the file function starts.
While viewing a file, press RETURN to move to the previous menu (JPEG menu).
Press TOP MENU to move to the next page.
Press DISC MENU to move to the previous page.



Tip
There are three viewing Slide Speed options: Fast, Normal, Slow, and Off. Use ◀/▶ to highlight the Slide Speed then use ▲/▼ to select the option you want to use, and press ENTER.

5 To stop viewing at any other time, press STOP.
The JPEG menu appears.

Selecting other Files

Press **SKIP** ▶▶I or I◀◀ once while viewing a picture to advance to the next file or to the previous file.

Still Picture

1 Press PAUSE/STEP during slide show.
The player will now go into PAUSE mode.
2 To return to the slide show, press PLAY or press PAUSE/STEP again.

To flip the picture

Press ▲/▼ while showing a picture to flip the picture horizontally or a vertically.

To rotate picture

Press ◀/▶ while showing a picture to rotate the picture clockwise or counter clockwise.

Notes on JPEG Files

- Depending upon the size and number of the JPEG files, it could take a long time for the DVD player to read the disc's contents. If you don't see an on-screen display after several minutes, some of the files are too big — reduce the resolution of the JPEG files to less than 3072x2048 pixels and burn another disc.
- Total number of files and folders on the disc should be less than 650.
- Some disc may be incompatible due to different recording format or condition of disc.
- When you are using software such as "Easy CD Creator" to burn the jpeg files into the CD-R, ensure that all the selected files have the ".jpg" extensions when copying into the CD layout.
- If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" files.
- File names without ".jpg" extension will not be able to be read by this DVD/VCR Receiver, even though the files are shown as JPEG image files in windows explorer.

Programmed Playback CD VCD2.0 VCD1.1 MP3 WMA

Programmed Playback with Audio CDs and MP3/WMA Discs

The Program function enables you to store your favourite tracks from any disc in the player memory.

Program can contain 30 tracks.

1 Press PROGRAM during playback or in the Stop mode to enter the Program Edit mode.

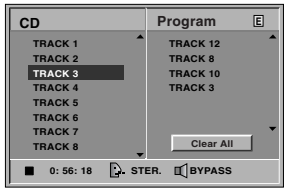
The E mark will appear to the right of the word Program on the right side of the menu screen.

Note

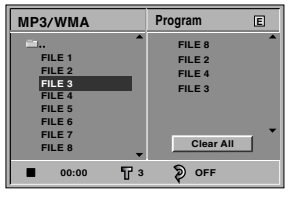
Press PROGRAM to exit the Program Edit mode; the E mark will disappear.

2 Select a track, then press ENTER to place the selected track on the Program list.

3 Repeat step 2 to place additional tracks on the Program list.



Audio CD menu



MP3/WMA menu

4 Press ▶.

The programmed track you selected last is highlighted on the program list.

5 Use ▲/▼ to select the track you want to start playing.

Press TOP MENU to move to the next page.
Press DISC MENU to move to the previous page.

6 Press PLAY or ENTER to start.

Playback begins in the order in which you programmed the tracks and "PROG." appears on the menu screen. Playback stops after all of the tracks on the Program list have played once.

7 To resume normal playback from programmed playback, press PROGRAM.
Select a track of CD (or MP3/WMA) list and then press ENTER or PLAY.

"PROG" indicator disappears from the display window.

Programmed Playback with Video CD

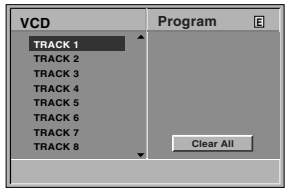
Note

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Program function. See page 22.

1 Insert Video CD and close the tray.

2 Press PROGRAM while playback is stopped.

The VCD Program menu will appear.



Note

Press RETURN, PROGRAM or PLAY to exit the Program menu.

3 Follow steps 2-6 of "Programmed Playback with Audio CD and MP3/WMA disc" on left.

4 Press PLAY ► or ENTER to start.

Playback begins in the order in which you programmed the tracks. "PROGRAM" indicator will appear briefly on the TV screen.
Playback stops after all of the tracks on the Program list have played once.

5 To resume normal playback from programmed playback, press PROGRAM.

"NORMAL" indicator will appear briefly on the TV screen.

Repeat Programmed Tracks

- To repeat the track currently playing, press REPEAT. The Repeat icon and "TRACK" appears on the menu screen.
- To repeat all tracks on the program list, press REPEAT a second time. The Repeat icon and "ALL" appears on the menu screen.
- To cancel Repeat mode, press REPEAT a third time. The Repeat icon and "OFF" appears on the menu screen.

Note

For Video CD, the Repeat icon will only appear briefly on the screen.

Erasing a Track from Program List

1 Press PROGRAM during playback (Audio CD and MP3/WMA disc only) or stop to enter the Program Edit mode.
The E mark will appear.
2 Press ▶ to move to the Program list.
3 Use ▲/▼ to select the track that you wish to erase from the Program list.
4 Press CLEAR.
The track will be erased from the Program list.

Erasing the whole Program List

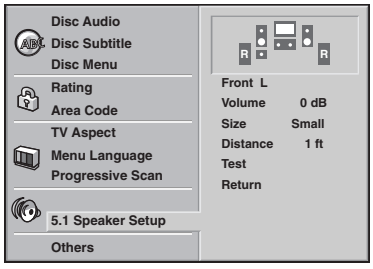
1 Follow steps 1-2 of "Erasing a Track from Program List" as above.
2 Use ▲/▼ to select "Clear All", then press ENTER.
The complete Program for the disc will be erased.

Note

- The programs are cleared when the disc is removed.
- The programs are cleared when another function mode (VCR, radio etc.) is selected.

Speaker Setup

Adjust the following settings for the built-in 5.1 channel surround decoder.



1 Select "5.1 Speaker Setup" using the ▲/▼ buttons on the setup menu.

2 While "5.1 Speaker Setup" is selected, press ▶ button.

3 Press ▶ buttons to select the desired speaker.

4 Adjust options by using ▲▼◀ ▶ buttons.

Speaker selection

Select a speaker that you want to adjust. ((Front speakers (Left), Centre Speaker, Front speakers (Right), Rear speakers (Left), Rear speakers (Right), or Subwoofer))

Note

Certain speaker settings are prohibited by the Dolby Digital licensing agreement.

Volume

Press ◀ / ▶ to adjust the output level of the selected speaker. (-6dB ~ 6dB)

Size

Since the speaker settings are fixed, you cannot change the settings.

- Subwoofer's size is fixed "Large" and the other speaker's size are fixed "small".

Distance

If you connected speakers to your DVD/VCR Receiver , setting the Distance lets the speakers know how far the sound has to travel to reach your set listening point. This allows the sound from each speaker to reach the listener at the same time. (1~20 ft, 1 ft = 0.30 m)

Note

You can not set the distance of subwoofer speaker.

Test

Press ENTER to test the signals of each speaker. Adjust the volume to match the volume of test signals memorized in the system.

- Front Left (L) → Centre → Front Right (R) → Rear Right (R) → Rear Left (L) → Subwoofer

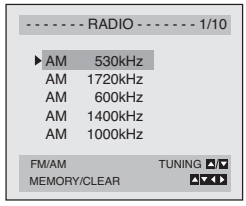
Return

Press ENTER to return to the previous menu.

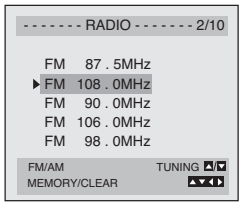
Presetting the Radio Stations

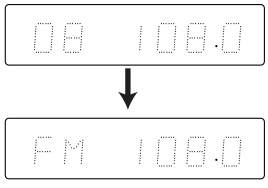
You can preset 50 stations for FM and AM. Before tuning, make sure that you have turned down the volume.

1 Press FM/AM on the remote control or RADIO on the front panel until the frequency band appears on the display and TV screen.



2 Use ▲/▼ on the remote control or CH/PRESET ▲/▼ front panel to select the desired Station.
If you select a blank column, R-SKIP appears in the display window.

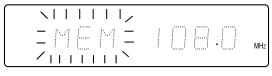




3 Press FM/AM on the remote control or front panel to select the desired band.

4 Hold down TUNING (▼/▲) on the front panel or remote control for 1 or 2 seconds, and a station is searched for automatically.

5 Press MEMORY on the remote control.
The station is stored.



6 Repeat steps 2 to 5 to store other stations.

Listening to the Radio

Preset radio stations in the DVD/VCR Receiver memory first (see “Presetting Radio Stations” on the left).

1 Press FM/AM on the remote control or RADIO on the front panel until the frequency band appears on the display and TV screen.

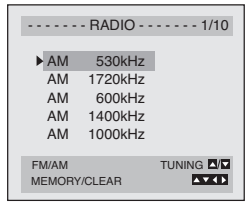
The last received station is tuned in.

2 Use ▲/▼ on the remote control repeatedly to select the preset station you want.
Each time you press the button, the DVD/VCR Receiver tunes in one preset station at a time.

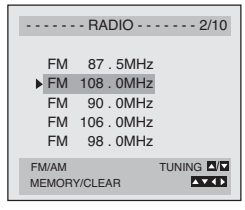
3 Adjust the volume by rotating VOLUME on the front panel or by pressing VOLUME ▲ or ▼ on the remote control repeatedly.

To Clear the Stored Radio Stations

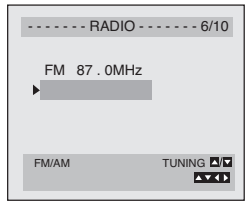
1 Press FM/AM on the remote control or on the front panel until the frequency band appears on the display and TV screen.



2 Use ▲/▼ on the remote control to select your desired station.



3 Press CLEAR the remote control to clear the stored radio station.



Note
While record or record pause mode, the CLEAR function may not be operated.

Tuning into a Station Manually

1 **Press FM/AM on the remote control until the frequency band appears on the display and TV screen.**

2 **Press FM/AM on the remote control to select the desired band.**

3 **Press TUNING (▼/▲) on the remote control to tune in the desired station.**

For your reference

Weak FM stations
"ST" may flash when a weak FM stereo signal is received, select another station or realign the antenna.

To turn off the radio
Press **POWER I** / ⏻ to turn the DVD/VCR Receiver off or select another function mode (DVD or VCR).

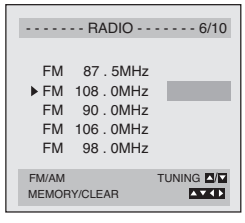
Tuning into a Station Automatically

Hold down **TUNING (▼/▲)** on the remote control for 1 or 2 seconds, and a station is searched for automatically.

Note
The search may not stop at a station with a very weak signal.

Labeling Stations

1 **Press ▶ to move to the station name column.**



2 **Use the ▲/▼ buttons to select the character then use the ◀/▶ buttons to shift to the next or previous character.**

3 **Press ENTER to confirm the station name.**

4 **Press ENTER on the remote control.**
The station name is stored.

Controlling Your TV with the Supplied Remote

The remote control can be compatible with various brands of TV by setting their control codes. The TOSHIBA code has initially been set to control TOSHIBA TVs.

Setting TV Control Codes

1. **Press TV to set the remote control operating your TV.**
2. **While holding down PROGRAM button, enter the two digits of your TV's brand code (listed on page 41) using number buttons.**
3. **Release PROGRAM.**

By pressing	You can
TV POWER	Turn the TV on or off.
CH/TRK ▼/▲	To select TV channels in the upper or lower direction.
VOLUME ▼/▲	Adjust the volume of the TV.
INPUT	Switch the TV's input source between the TV and other input sources.

Important

Some TV's may not respond to all the operations above, or may not be operated at all with this remote control. In this case, operate your TV with its own remote control.

Note

- For some brands, several control codes (brand codes) are allocated. Try each of them until the buttons work on your TV.
- If you replace the remote control's batteries, set the brand code again.

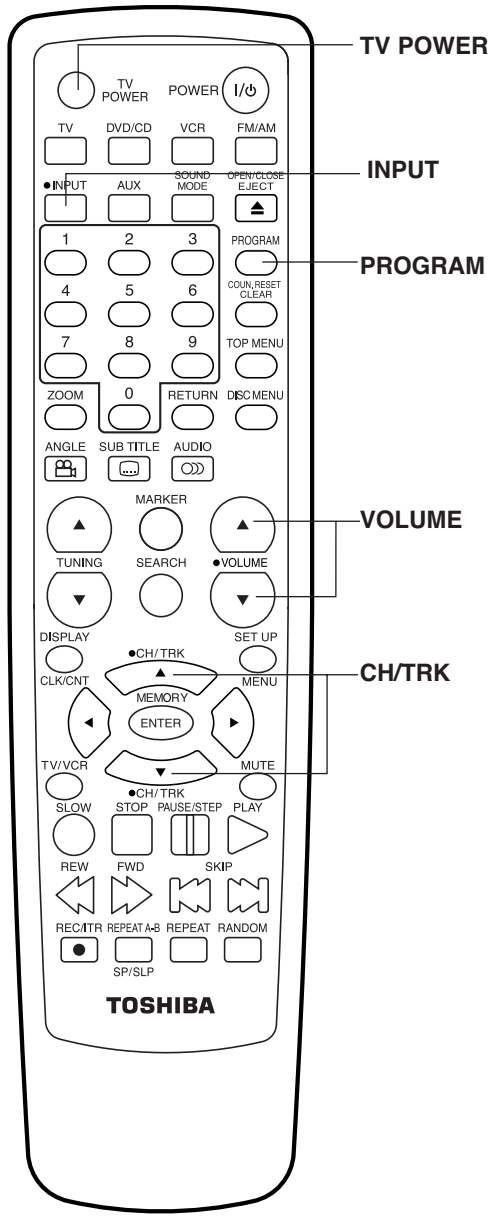


Table of TV Brand Codes

Brand name of your TV	Brand Code
Toshiba	01
Bell & Howell	09
Carver	10
Celebrity	03
Citizen	12
Curtis Mathes	09, 12
Dumont	14
Electro band	03
Emerson	09, 11
Fisher	09
GE	02, 07, 11
Gibraiter	14
Goldstar	11
Hallmark	11
Hitachi	06
Infinity	10
JBL	10
JCB	03
JVC	05
LXI	01, 02, 09, 10, 11
Magnavox	10
Marantz	10
Megatron	06, 11
Memorex	04, 09, 11
MGA	04, 11
Midland	02, 07, 14
Mitsubishi	04, 11
Motorola	08
MTC	12
NAD	01, 11
Nikko	11
Optimus	09
Optonica	08
Panasonic	07, 10, 15
Penney	01, 02, 07, 11, 12
Philco	10
Philips	10
Pioneer	16
Princeclub	12
Prism	07
Proscan	02
Proton	11
Pulser	14
Quasar	07, 15
Radio Shack	13
RCA	02
Realistic	09, 11, 13

Brand name of your TV	Brand Code
Runco (NEC)	14
Samsung	11,12
Sanyo	09
Scotch	11
Scott	11
Sears	01, 02, 09, 10, 11
Sharp	08, 13
Sony	03
Soundesign	11
Supreme	03
Sylvania	10
Tandy	08
Technics	07, 15
Techwood	07
Teknika	04, 10, 12
TMK	11
Victor	05
Vidikron	10
Vidtech	11
Wards	10, 11, 13
Zenith	14

Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

Symptom	Cause	Solution
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
The power is on, but the DVD/VCR Receiver does not work.	• No disc is inserted. • No tape is inserted.	• Insert a disc or tape. (Check that the disc or tape indicator in the display window is lit.)
No picture.	• The TV is not set to receive DVD/VCR Receiver signal output.	• Select the appropriate video input mode on the TV so the picture from the DVD/VCR Receiver appears on the TV screen.
	• TV/VCR mode for DVD/VCR Receiver is set to TV MODE.	• Press the TV/VCR button on the remote control repeatedly to choose VCR mode. VCR MODE appears in the display window.
	• The video cable is not connected securely.	• Connect the video cable securely.
	• The connected TV power is turned off.	• Turn on the TV.
No sound.	• The equipment connected with the audio cable is not set to receive DVD/VCR Receiver signal output.	• Select the correct input mode on the audio receiver so you can listen to the sound from the DVD/VCR Receiver.
	• The audio cables are not connected securely.	• Connect the audio cable securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The audio connecting cord is damaged.	• Replace it with new one.
The playback picture is poor.	• The disc is dirty.	• Clean the disc.
	• Tape heads are dirty.	• Clean video heads.
	• Tape is a rental or was recorded on another VCR.	• Use CH/TRK (▲/▼) for manual tracking adjustment while tape is playing.
The DVD/VCR Receiver does not start playback.	• No disc is inserted. • No tape is inserted.	• Insert a disc or tape. (Check that the disc or tape indicator in the display window is lit.)
	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type, color system, and Regional code.)
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	• The disc is dirty.	• Clean the disc.
	• The Rating level is set.	• Cancel the Rating function or change the rating level.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor of the DVD+VCR.	• Point the remote control at the remote sensor of the DVD+VCR.
	• The remote control is too far from the DVD+VCR.	• Operate the remote control within 23 ft (7 m).
	• There is an obstacle in the path of the remote control and the DVD+VCR.	• Remove the obstacle.
	• The batteries in the remote control are exhausted.	• Replace the batteries with new ones.
	• This remote control use the same buttons for VCR and DVD functions (ex. PLAY).	• When using a VCR, first press the VCR button. When using a DVD, first press the DVD button.

Troubleshooting (Continued)

Symptom	Cause	Solution
INPUT, VOLUME ▲/▼ and ◄/►/▲/▼ buttons on remote control cannot operate.	• Incorrect mode (e.g. Remote control in TV mode).	• Press DVD/CD, VCR or FM/AM to select the correct mode on the remote control.
Some channels are skipped over when using CH/TRK (▲/▼)	• Those channels were deleted with the CH. ADD/DEL option.	• Use CH. ADD/DEL to restore channels. See “Channel Selection” on page 18.
Picture and sound of broadcasting channel are weak or missing.	• Antenna or cables are loose.	• Tighten connections or replace cable.
	• Wrong CHANNEL SOURCE option is being used.	• Try all CHANNEL SOURCE options. See “Channel Selection” on page 18 for details.
Camcorder image is not shown.	• Camcorder is off.	• Turn camcorder on and operate properly.
Camcorder image via A/V input to DVD/VCR Receiver is not shown on TV screen.	• DVD/VCR Receiver INPUT SELECT is not set to LINE1(L1) or LINE2(L2).	• Press INPUT to select LINE input channel (LINE1(L1) or LINE2(L2)).
Timer recording is not possible.	• Clock in DVD/VCR Receiver is not set to correct time.	• Set clock to correct time. See “Setting the Clock” on page 19.
	• Timer has been programmed incorrectly.	• Reprogram Timer. See “Timer Recording” on pages 25 and 26.
	• ◷ indicator light does not appear after programming timer.	• Reprogram Timer.
Stereo Audio Record and/or Playback is not present.	• TV is not Stereo-compatible.	• No action is possible.
	• Broadcast program is not in stereo format.	• No action is possible.
	• DVD/VCR Receiver A/V Out jacks are not connected to TV A/V In jacks.	• Make A/V connections. Stereo is available only via A/V output from DVD/VCR Receiver.
	• DVD/VCR Receiver Audio/Video Out is not selected for viewing at the TV.	• Select AUX or A/V source as TV input.
	• DVD/VCR Receiver BROADCAST TYPE mode is set to SAP or MONO.	• Set BROADCAST TYPE mode to STEREO. See “VCR Setup Menu Option” on page 18.
Severe hum or noise is heard.	• The plugs and jacks are dirty.	• Wipe them with a cloth slightly moistened with alcohol.
	• The disc is dirty.	• Clean the disc.
	• The speakers and components are connected poorly.	• Connect the speakers and components securely.
	• The DVD/VCR Receiver is located too close to the TV.	• Move your TV away from the audio components.
Radio stations cannot be tuned in.	• The antenna is positioned or connected poorly.	• Connect the antenna securely.
		• Adjust the antennas and connect an external antenna if necessary.
	• The signal strength of the stations is too weak (when tuning in with automatic tuning).	• Tune in the station manually.
	• No stations have been preset or preset stations have been cleared (when tuning by scanning preset stations).	• Preset the stations (page 38).
No sound from DIGITAL AUDIO IN (OPTICAL).	• DVD/VCR Receiver source is not set to DIGITAL AUDIO IN (OPTICAL).	• Select OPTICAL by pressing AUX once.

Language Code List

Enter the appropriate code number for the initial settings “Disc Audio”, “Disc Subtitle” and/or “Disc Menu” (See page 21).

Code	Language	Code	Language	Code	Language	Code	Language
6566	Abkhazian	7074	Fiji	7678	Lingala	8373	Singhalese
6565	Afar	7073	Finnish	7684	Lithuanian	8375	Slovak
6570	Afrikaans	7082	French	7775	Macedonian	8376	Slovenian
8381	Albanian	7089	Frisian	7771	Malagasy	8379	Somali
6577	Amharic	7176	Galician	7783	Malay	6983	Spanish
6582	Arabic	7565	Georgian	7776	Malayalam	8385	Sudanese
7289	Armenian	6869	German	7784	Maltese	8387	Swahili
6583	Assamese	6976	Greek	7773	Maori	8386	Swedish
6588	Aymara	7576	Greenlandic	7782	Marathi	8476	Tagalog
6590	Azerbaijani	7178	Guarani	7779	Moldavian	8471	Tajik
6665	Bashkir	7185	Gujarati	7778	Mongolian	8465	Tamil
6985	Basque	7265	Hausa	7865	Nauru	8484	Tatar
6678	Bengali; Bangla	7387	Hebrew	7869	Nepali	8469	Telugu
6890	Bhutani	7273	Hindi	7879	Norwegian	8472	Thai
6672	Bihari	7285	Hungarian	7982	Oriya	6679	Tibetan
6682	Breton	7383	Icelandic	8065	Panjabi	8473	Tigrinya
6671	Bulgarian	7378	Indonesian	8083	Pashto, Pushto	8479	Tonga
7789	Burmese	7365	Interlingua	7065	Persian	8482	Turkish
6669	Byelorussian	7165	Irish	8076	Polish	8475	Turkmen
7577	Cambodian	7384	Italian	8084	Portuguese	8487	Twi
6765	Catalan	7465	Japanese	8185	Quechua	8575	Ukrainian
9072	Chinese	7487	Javanese	8277	Rhaeto-Romance	8582	Urdu
6779	Corsican	7578	Kannada	8279	Romanian	8590	Uzbek
7282	Croatian	7583	Kashmiri	8285	Russian	8673	Vietnamese
6783	Czech	7575	Kazakh	8377	Samoan	8679	Volapük
6865	Danish	7589	Kirghiz	8365	Sanskrit	6789	Welsh
7876	Dutch	7579	Korean	7168	Scots Gaelic	8779	Wolof
6978	English	7585	Kurdish	8382	Serbian	8872	Xhosa
6979	Esperanto	7679	Laothian	8372	Serbo-Croatian	7473	Yiddish
6984	Estonian	7665	Latin	8378	Shona	8979	Yoruba
7079	Faeroese	7686	Latvian, Lettish	8368	Sindhi	9085	Zulu

Country/Area Code List

Enter the appropriate code number for the initial setting “Area Code List” (See page 23).

Code	Country
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaidjan
BA	Bosnia-Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Ivory Coast
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CS	Former Czechoslovakia
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
FM	Micronesia
FO	Faroe Islands
FR	France
FX	France (European Territory)
GA	Gabon
GB	Great Britain
GD	Grenada
GE	Georgia
GF	French Guyana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe (French)
GQ	Equatorial Guinea
GR	Greece
GS	S. Georgia & S. Sandwich Isls.
GT	Guatemala
GU	Guam (USA)
GW	Guinea Bissau
GY	Guyana
HK	Hong Kong
HM	Heard and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia6
KI	Kiribati
KM	Comoros
KN	Saint Kitts & Nevis Anguilla
KP	North Korea
KR	South Korea
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Laos
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libya
MA	Morocco
MC	Monaco
MD	Moldavia
MG	Madagascar
MH	Marshall Islands
MK	Macedonia
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique (French)
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia (French)
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	Polynesia (French)
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn Island
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Reunion (French)
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen Islands
SK	Slovak Republic
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Saint Tome and Principe
SU	Former USSR
SV	El Salvador
SY	Syria
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tadjikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania
UA	Ukraine
UG	Uganda
UK	United Kingdom
UM	USA Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State
VC	Saint Vincent & Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (USA)
VN	Vietnam
VU	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

Specifications

General

Power requirements	AC 120V, 60 Hz
Power consumption	110W
Dimensions (approx.)	430 X 81 X 380 mm (17 x 3.2 x 14.9 inches) (w x h x d)
Mass (approx.)	6 kg (13.2 lbs)
Operating temperature	5˚C to 35˚C (41˚F to 95˚F)
Operating humidity	5 % to 90 %
Signal system	NTSC

Inputs

ANTENNA IN	Antenna or CATV input, 75 ohms
VCR VIDEO IN	1 V (p-p) 75 ohms, sync negative, RCA jack x 2
VCR AUDIO IN	-6.0 dBm more than 47 kohms, RCA jack (L, R) x 2
FM ANTENNA IN	FM antenna input, 75 ohms
AM ANTENNA IN	AM antenna input, 300 ohms
DIGITAL AUDIO IN	Optical connector x 1

Outputs

VIDEO OUT	1 V (p-p) 75 ohms, sync negative
S-VIDEO OUT	(Y) 1.0 V (p-p), 75 ohms, sync negative, Mini DIN 4-pin x 1 (C) 0.286 V (p-p) 75 ohms
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 ohms, sync negative, RCA jack x 1
(PROGRESSIVE SCAN)	(Pb)/(Pr) 0.7 V (p-p), 75 ohms, RCA jack x 2
Audio output (analog audio)	2.0 Vrms (1 KHz, 0 dB), 330 ohms, RCA jack (L, R) x 1
RF OUT	Channel 3 or 4 (Adjustable)

VCR Specifications

Head system	4 head helical scan azimuth system
Timer	12-hour display type with AM, PM
Tape speed	SP: 33.35 mm/sec, LP: 16.67 mm/sec, SLP: 11.12 mm/sec
Tape width	12.7 mm
Maximum recording time	SP: 2 HOURS (T-120), SLP: 6 HOURS (T-120)/8 HOURS (T-160)
Rewind time	About 180 seconds (T-120)
Antenna	75 ohms (VHF/UHF)
Channel coverage	VHF: 2-13, UHF: 14-69, CATV: 1-125 (4A, A-W, W+1 - W+84, A-5 - A-1)
Frequency range	20Hz to 20kHz
Signal-to-noise ratio	More than 43dB
Dynamic range	More than 85 dB (AUDIO OUT jacks)
Channel separation	More than 55 dB (AUDIO OUT jacks)

DVD Specifications

Laser system	Semiconductor laser, wavelength 650 nm
Frequency response	DVD (PCM 48 kHz): 20 Hz to 20 kHz, CD: 20 Hz to 20 kHz
Signal-to-noise ratio	More than 80 dB (AUDIO OUT jacks)
Harmonic distortion	Less than 0.4%
Dynamic range	More than 80 dB (AUDIO OUT jacks)

Specifications (Continued)

FM Tuner

Tuning Range	87.5 - 108.0 MHz
Intermediate Frequency	10.7 MHz

AM Tuner

Tuning Range	530 - 1,720 kHz
Intermediate Frequency	450 kHz

Amplifier

Stereo mode	90W + 90W (6Ω at 1 kHz, THD 10 %)
Surround mode	Front: 90W + 90W (6Ω at 1 kHz, THD 10 %) Center*: 90W (6Ω at 1 kHz, THD 10 %) Surround*: 90W + 90W (6Ω at 1 kHz, THD 10 %) Subwoofer*: 150W (4Ω at 30 Hz, THD 10 %) *Depending on the sound mode settings and the source, there may be no sound output.
Inputs	LINE 1, LINE 2, OPTICAL IN

Speakers

	Satellite Speaker	Center Speaker	Passive Subwoofer
Type	2 Way 2 Speaker	2 Way 2 Speaker	1 Way 1 Speaker
Impedance	6 Ω	6 Ω	4 Ω
Frequency Response	110 - 40,000 Hz	110 - 40,000 Hz	40 - 1,500 Hz
Sound Pressure Level	83 dB/W (1m)	83 dB/W (1m)	82 dB/W (1m)
Rated Input Power	90 W	90 W	150 W
Max. Input Power	180 W	180 W	300 W
Net Dimensions (W x H x D)	120 x 170 x 107 mm	120 x 252 x 107 mm	200 x 400 x 381 mm
Net Weight	0.94 kg	1.07 kg	7.0 kg

Accessories:

Video cable 1
Audio cable 1
Ferrite core 1
RF 75-ohm Coaxial Cable 1
Speakers 6
Speaker cables 6
AM loop antenna 1
FM antenna 1
Remote control 1
Batteries 2

- Design and specifications are subject to change without notice.

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Limited Warranty DVD/VCR Home Theater System

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS DVD/VCR HOME THEATER SYSTEM AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

Limited Ninety (90) Day Warranty on Labor*
TACP warrant this DVD/VCR Home Theater System and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP's OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. YOU MUST DELIVER THE ENTIRE DVD/VCR HOME THEATER SYSTEM TO AN AUTHORIZED TACP SERVICE STATION. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE DVD/VCR HOME THEATER SYSTEM TO AND FROM THE SERVICE STATION.

Limited One (1) Year Warranty on Parts*
TACP further warrant the parts in this DVD/VCR Home Theater System against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP's OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR THE PART, PROVIDED THAT IF A DEFECTIVE PART IS REPAIRED OR REPLACED **AFTER NINETY (90) DAYS FROM THE DATE OF ORIGINAL RETAIL PURCHASE, THE CONSUMER PAYS ALL LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT.** YOU MUST DELIVER THE ENTIRE DVD/VCR HOME THEATER SYSTEM TO AN AUTHORIZED TACP SERVICE STATION. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE DVD/VCR HOME THEATER SYSTEM TO AND FROM THE SERVICE STATION.

***Rental Units**
The warranty for rental units begin with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

***Commercial Units**
DVD/VCR HOME THEATER SYSTEM sold and used for commercial purposes have a limited ninety (90) day warranty.

Owner's Manual and Demographic Card
You should read the owner's manual thoroughly before operating this DVD/VCR Home Theater System. You should complete and mail the enclosed Demographic card within ten days after you, or the person who has given you this product as a gift, purchased this DVD/VCR Home Theater System. This is one way to enable TACP to provide you with better customer service and improved products. Failure to return the Demographic card will not affect your rights under this warranty.

Your Responsibility
THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must provide your bill of sale or other proof of purchase.
(2) All in-warranty servicing of this DVD/VCR HOME THEATER SYSTEM must be made by a specified Authorized TACP Service Station.
(3) The warranties from TACP are effective only if the DVD/VCR Home Theater System is purchased and operated in the U.S.A. or Puerto Rico.
(4) Labor service charges for set installation. Set up, adjustment of customer controls and installation or repair of hook up related items and/or antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
(5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any DVD/VCR Home Theater System or parts which have been lost or discarded by you or to damage to DVD/VCR Home Theater System or parts caused by misuse, accident, Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by TACP; or to units which have been modified or had the serial number removed, altered, defaced or rendered illegible.

How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the section “Troubleshooting”, you find that service is needed:

(1) For instructions on how to obtain warranty service for your DVD/VCR Home Theater Systems, contact TACP Call Center’s toll free number at 1-866-583-7353.

(2) You must include a copy or original bill of sale or other proof of purchase along with the entire DVD/VCR Home Theater System to the Authorized TACP Service Station specified by the Call Center. You must pay for all transportation and insurance charges for the DVD/VCR Home Theater System to the Service Station.

For additional information, visit TACP’s web site: www.tacp.toshiba.com

Time for Taking Action

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THE LIMITED WARRANTIES SET FORTH ABOVE. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A. AS HEREBY LIMITED, THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS AND SIMILAR OBLIGATIONS OF TACP WITH RESPECT TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP OR BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES.

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HOW STATE LAW RELATES TO WARRANTY

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

TOSHIBA

P/NO : 3834RH0033K

SECTION 2

CABINET & MAIN CHASSIS

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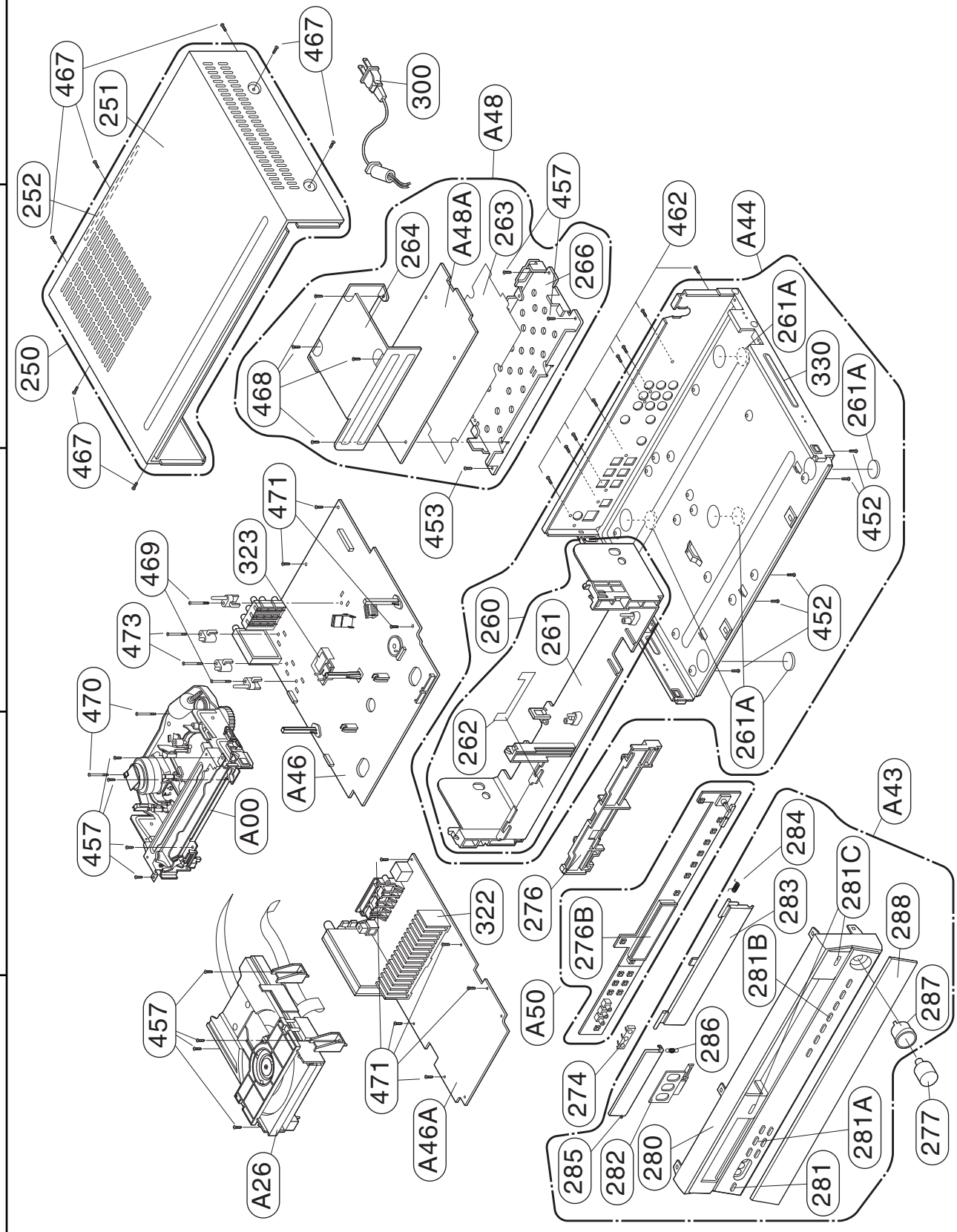
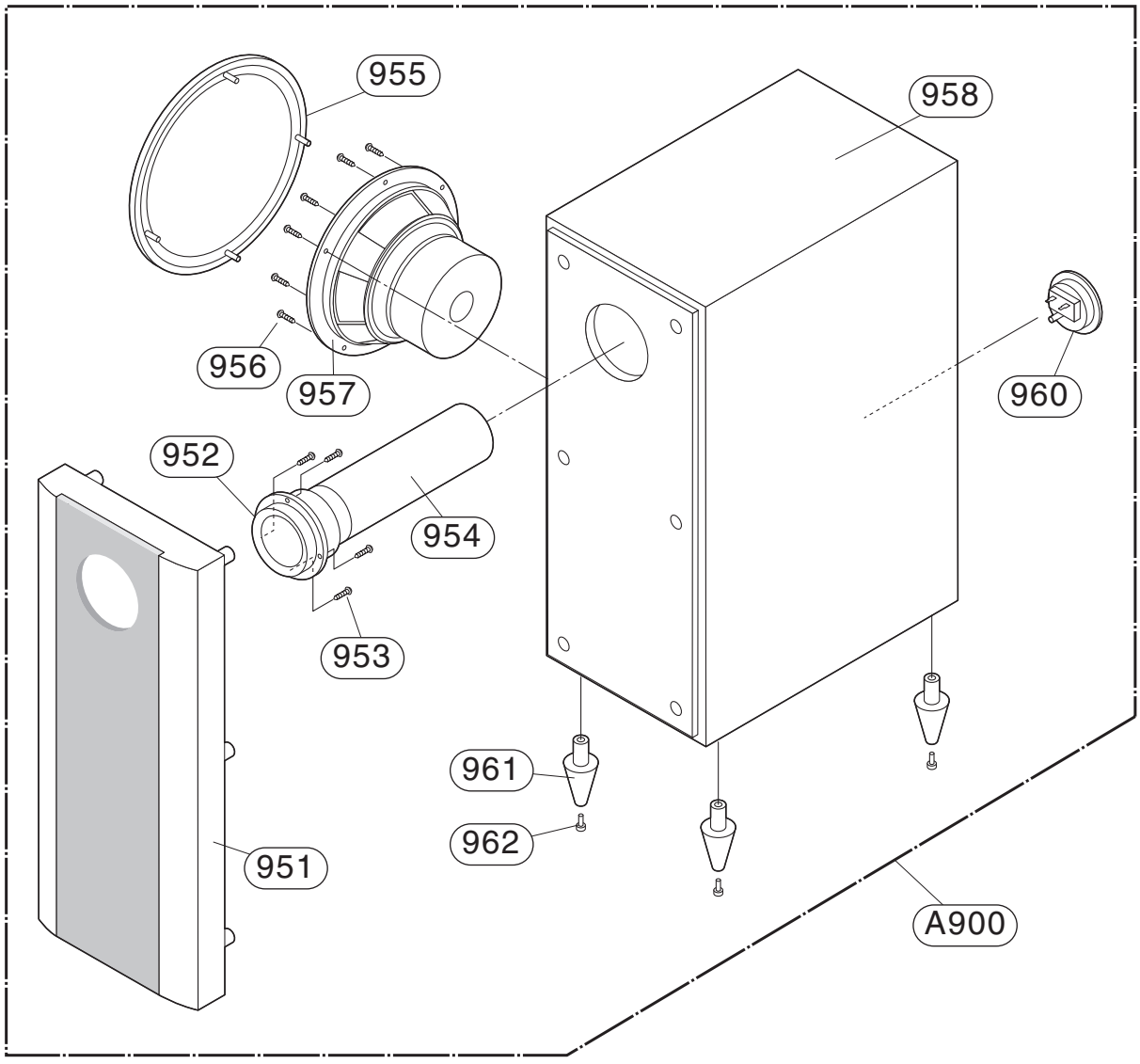
EXPLODED VIEWS

1. Cabinet and Main Frame Section

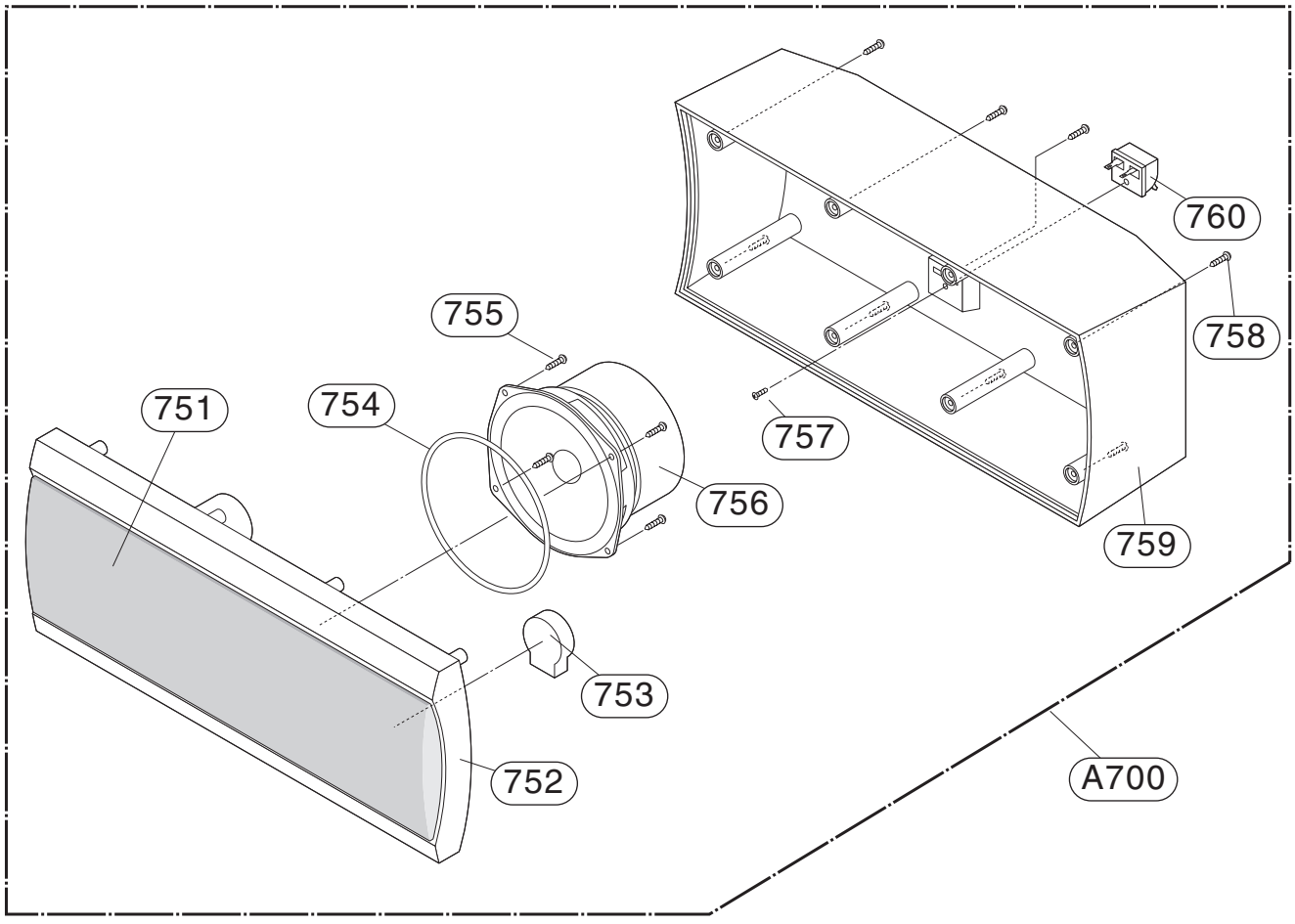


A | B | C | D

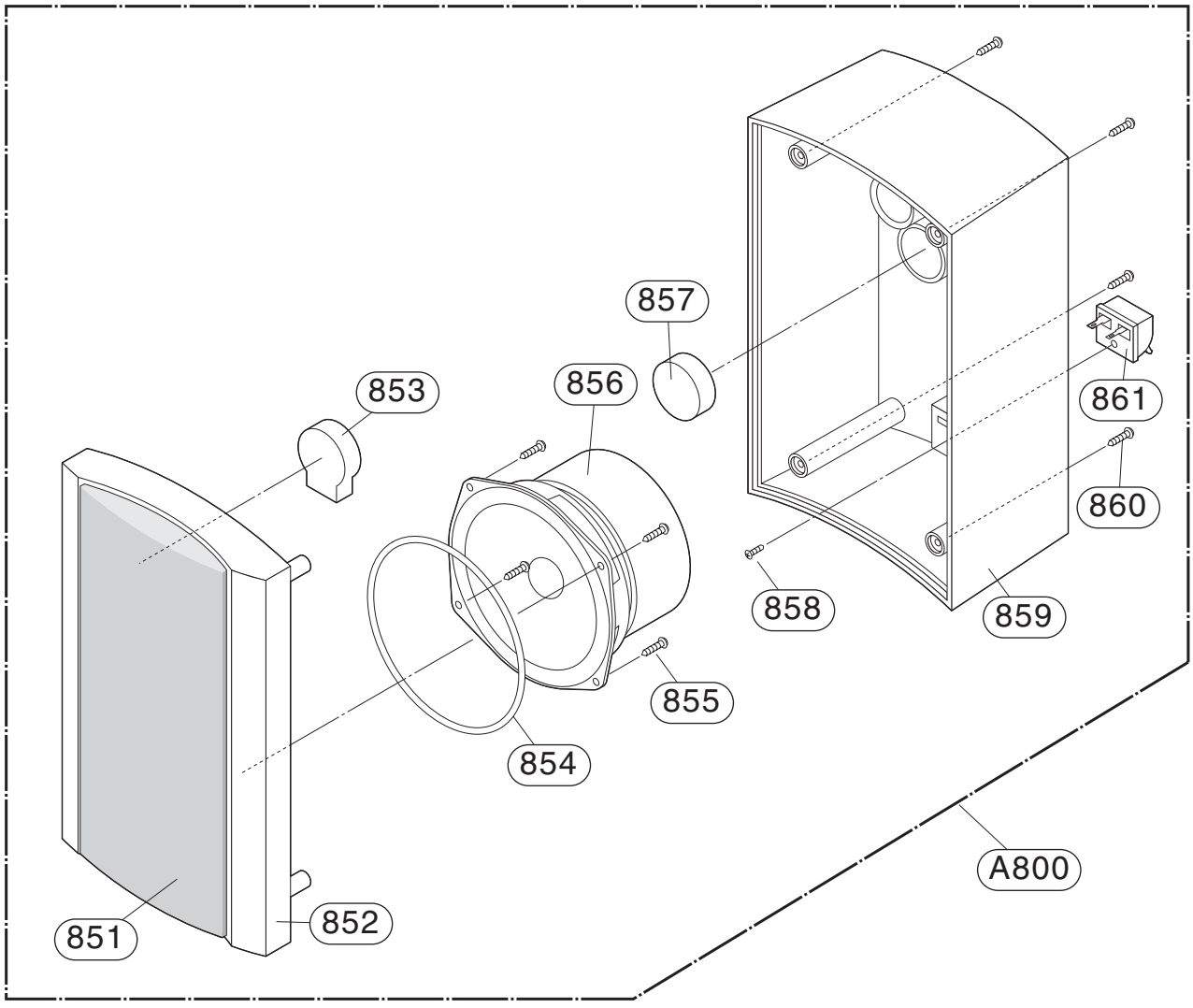
2. Woofer Speaker Section (V65HTW)



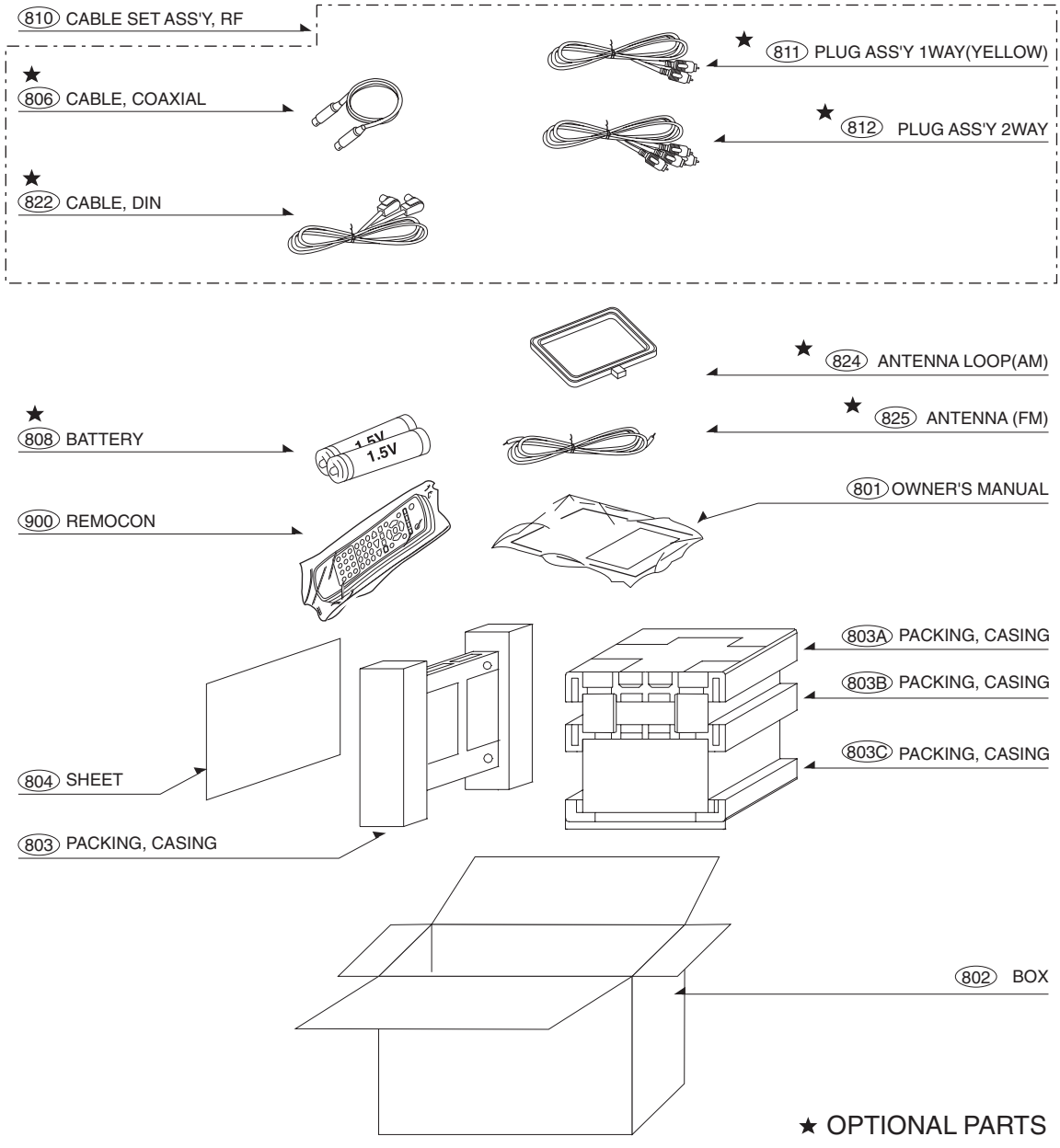
3. Speaker Center Section (V65HTC)



4. Speaker Rear/Front Section (V65HTS)



5. Packing Accessory Section



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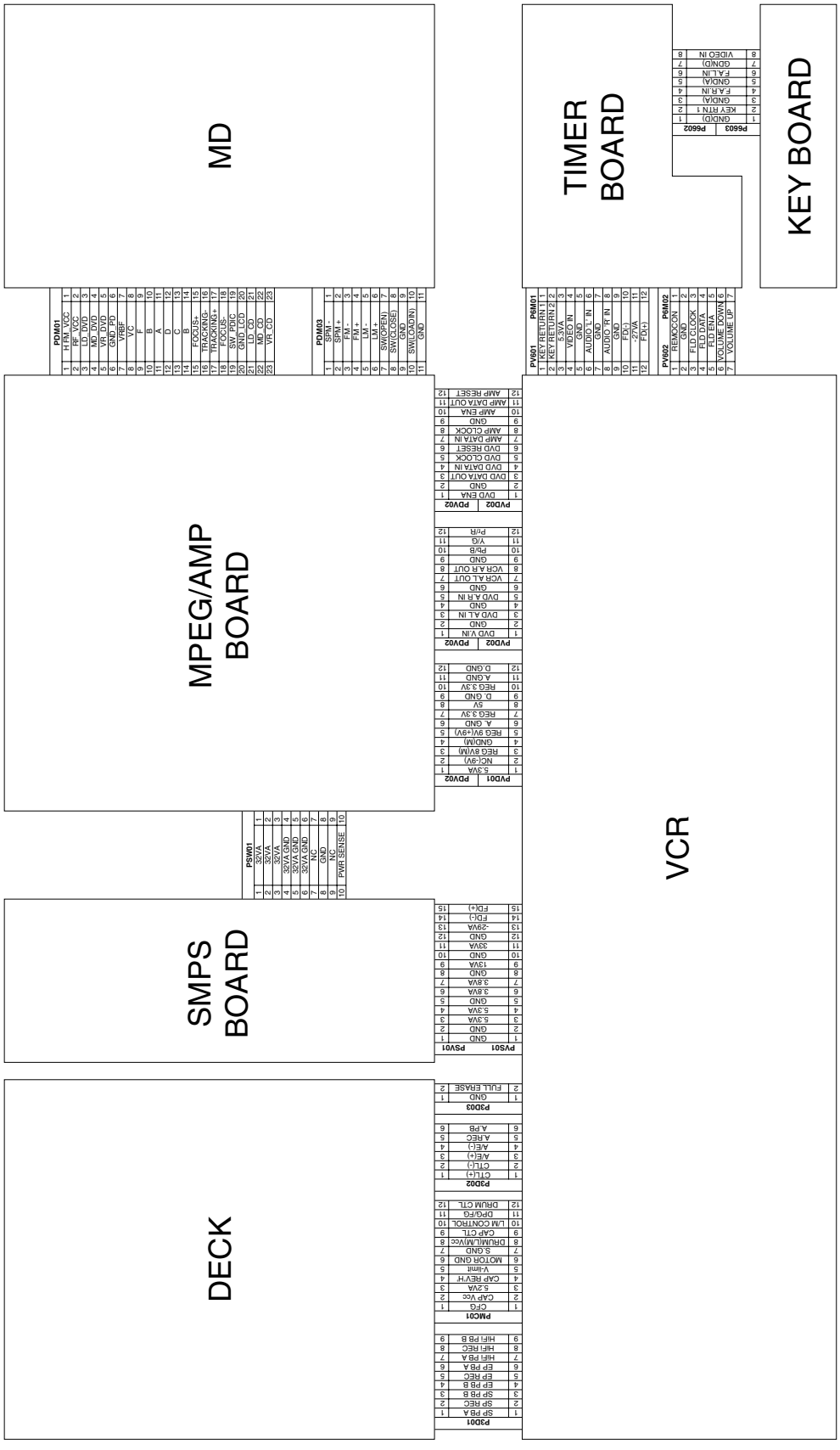
OVERALL WIRING DIAGRAM



VCR PART
ELECTRICAL ADJUSTMENT PROCEDURES

1. Servo Adjustment

1) PG Adjustment

• Test Equipment
  a) OSCILLOSCOPE
  b) NTSC MODEL : NTSC SP TEST TAPE

• Adjustment And Specification

MODE	MEASUREMENT POINT	ADJUSTMENT POINT	SPECIFICATION
PLAY	V.Out H/SW(W373, W374)	R/C TRK JIG KEY	6.5 ± 0.5H

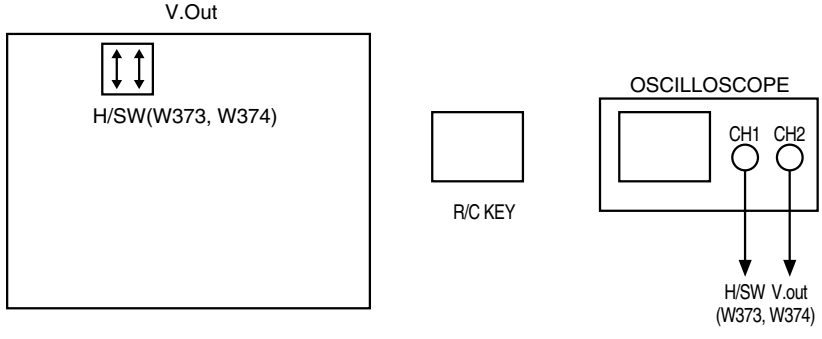
• Adjustment Procedure

a) Insert the SP Test Tape and play.
b) Press the “O” key on the Remote controller and the “PLAY” key on the Front Panel the same time, the unit then goes in to Tracking initial mode.
c) Trigger the mixed Combo Video Signal of CH2 to the CH1 H/SW(W373, W374), and then check the distance (time difference), which is from the selected A(B) Head point of the H/SW(W373, W374) signal to the starting point of the vertical synchronized signal, to 6.5H ± 0.5H (412μs, 1H=63μs).
  Note - Press FRONT CH UP KEY and FRONT PLAY KEY on Deck playback, and it goes in to ATR PRESET. after the SP Test Tape is inserted.

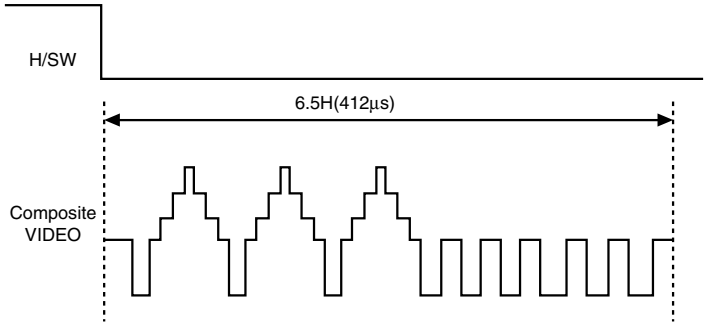
• PG Adjustment Method

a-1) Playback the SP standard tape
b-2) Press the “O” key on the Remote controller and the “PLAY” key on the Front Panel the same time, Tracking initial mode.
c-3) Repeat the above step(No.b-2), the unit will then finish the PG adjusting automatically.
d-4) Stop the playback, the unit then exits PG adjusting mode after saving the PG data.

• CONNECTION



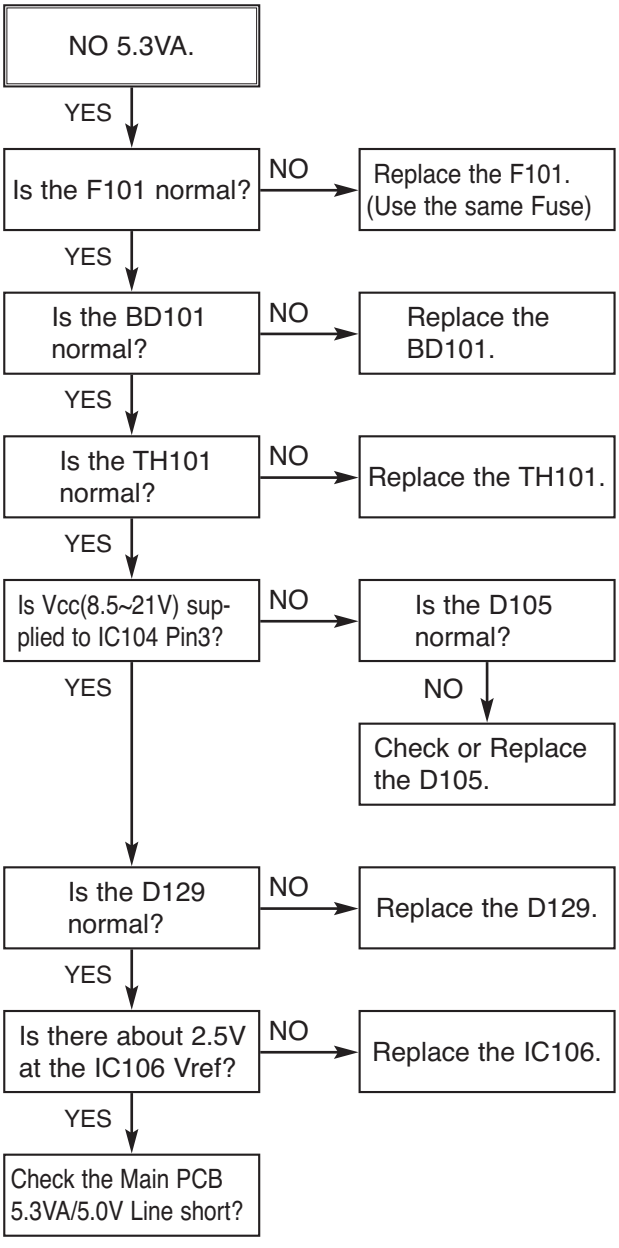
• WAVEFORM



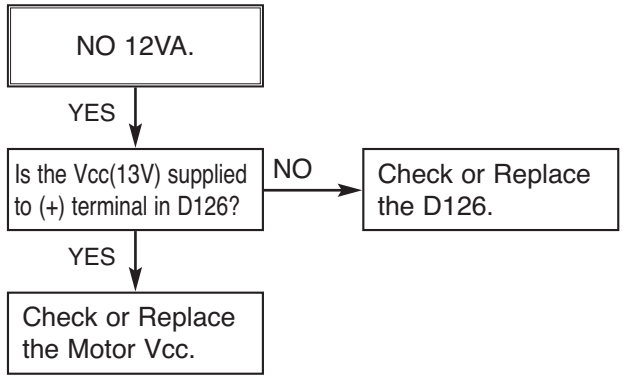
ELECTRICAL TROUBLESHOOTING GUIDE

1. Power(SMPS) CIRCUIT

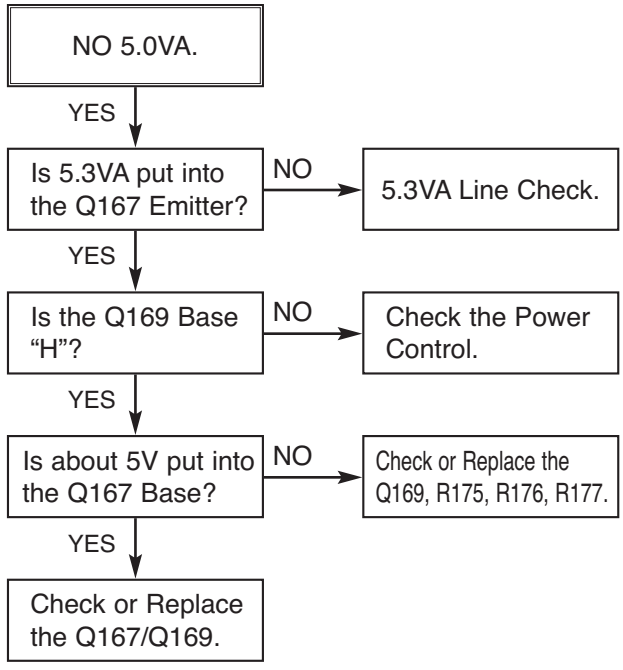
(1) No 5.3VA (SYS/Hi-Fi/TUNER)



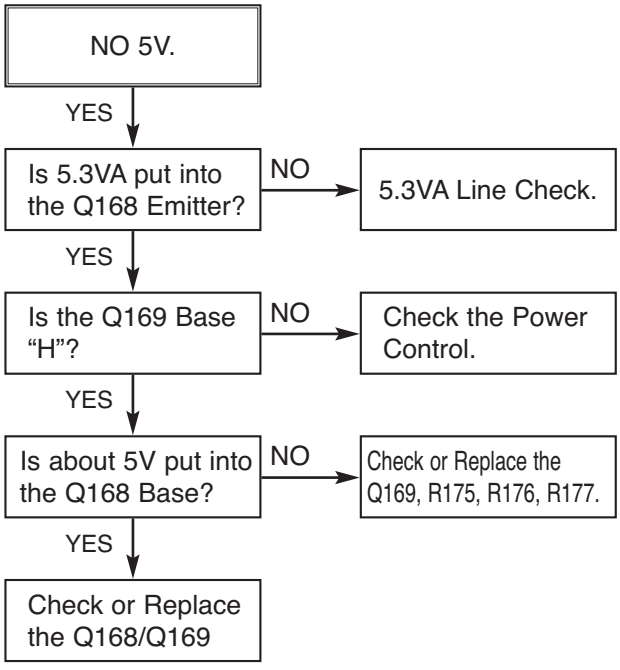
(2) No 12VA (TO CAP, DRUM MOTOR)



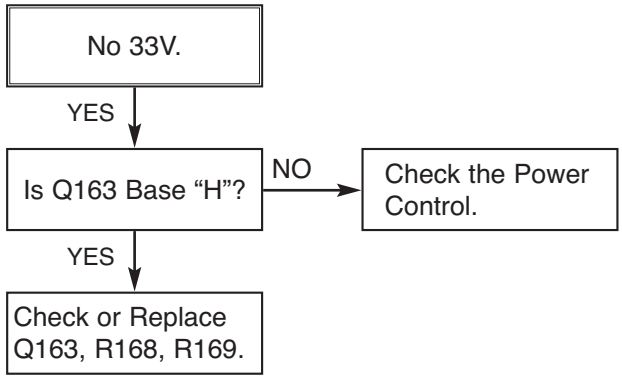
(3) No 5.0V (SYS/Hi-Fi/TUNER)



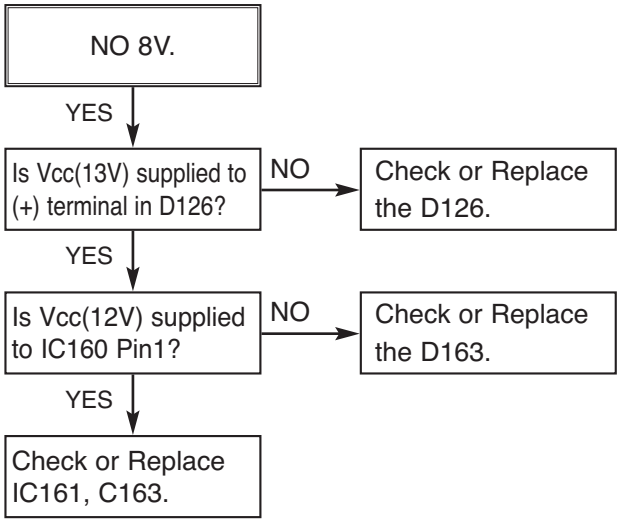
(4) No 5V (TO DVD)



(5) No 33V (TUNER)

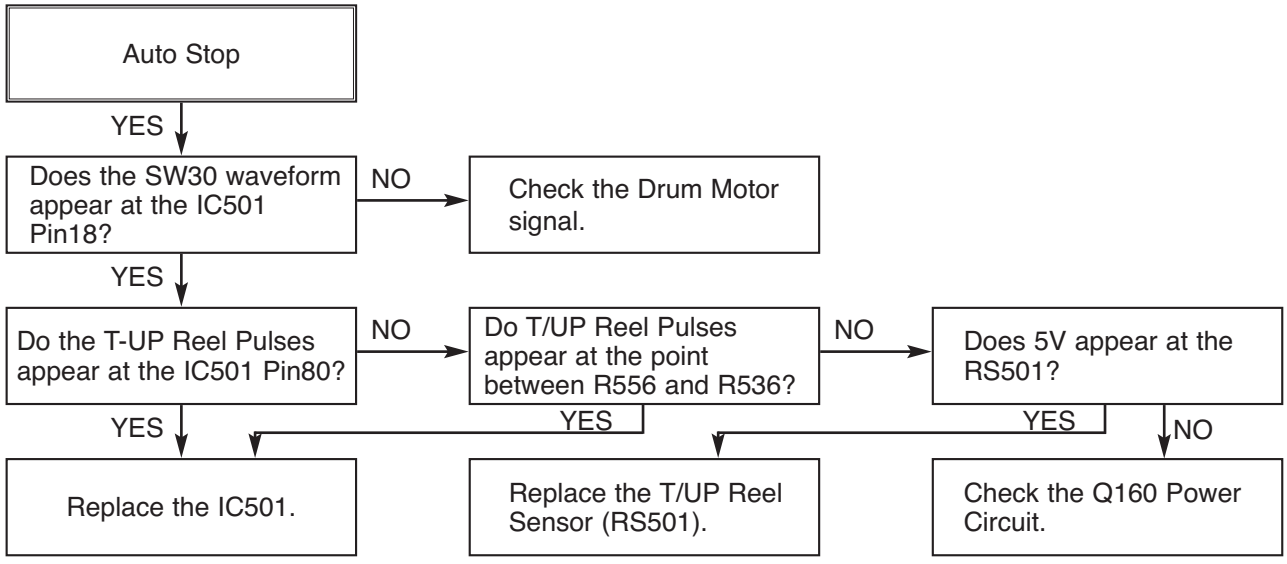


(6) No 8V(TO DVD)

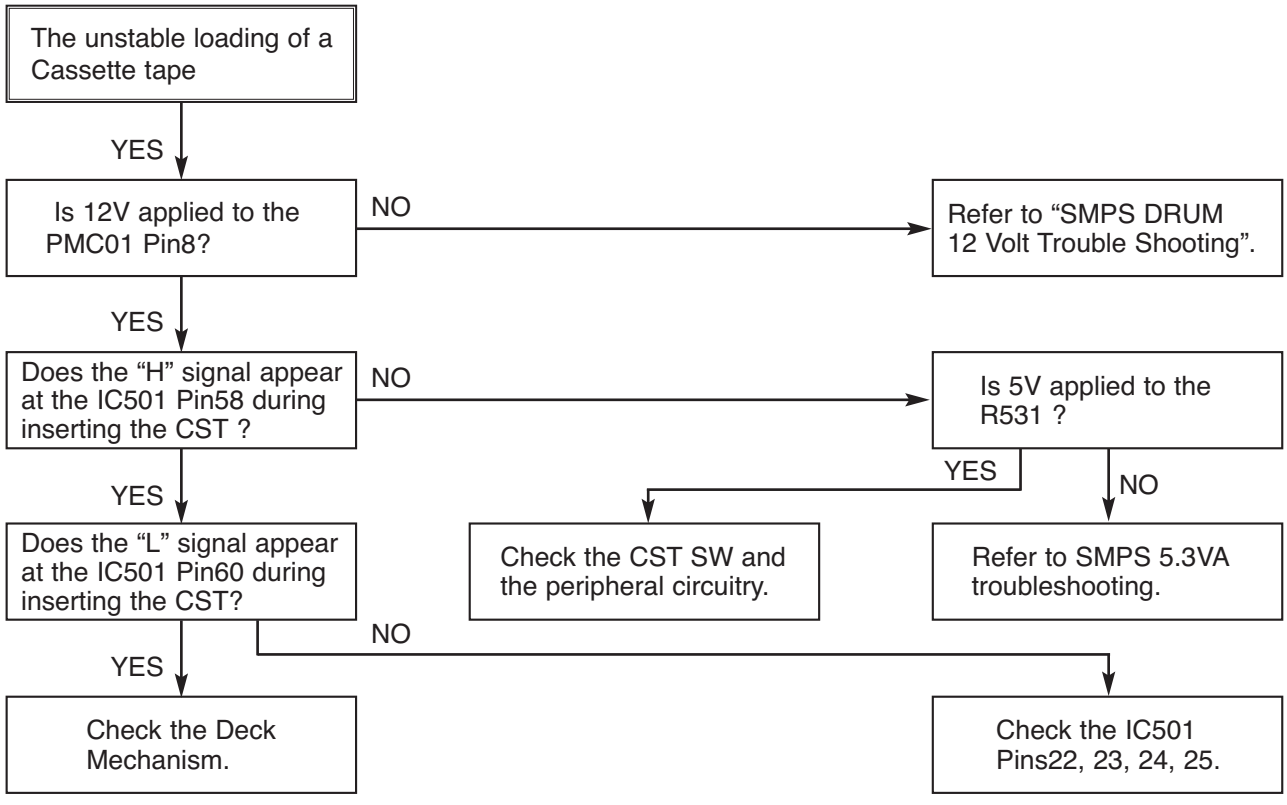


2. SYSTEM/KEY CIRCUIT

(1) AUTO STOP



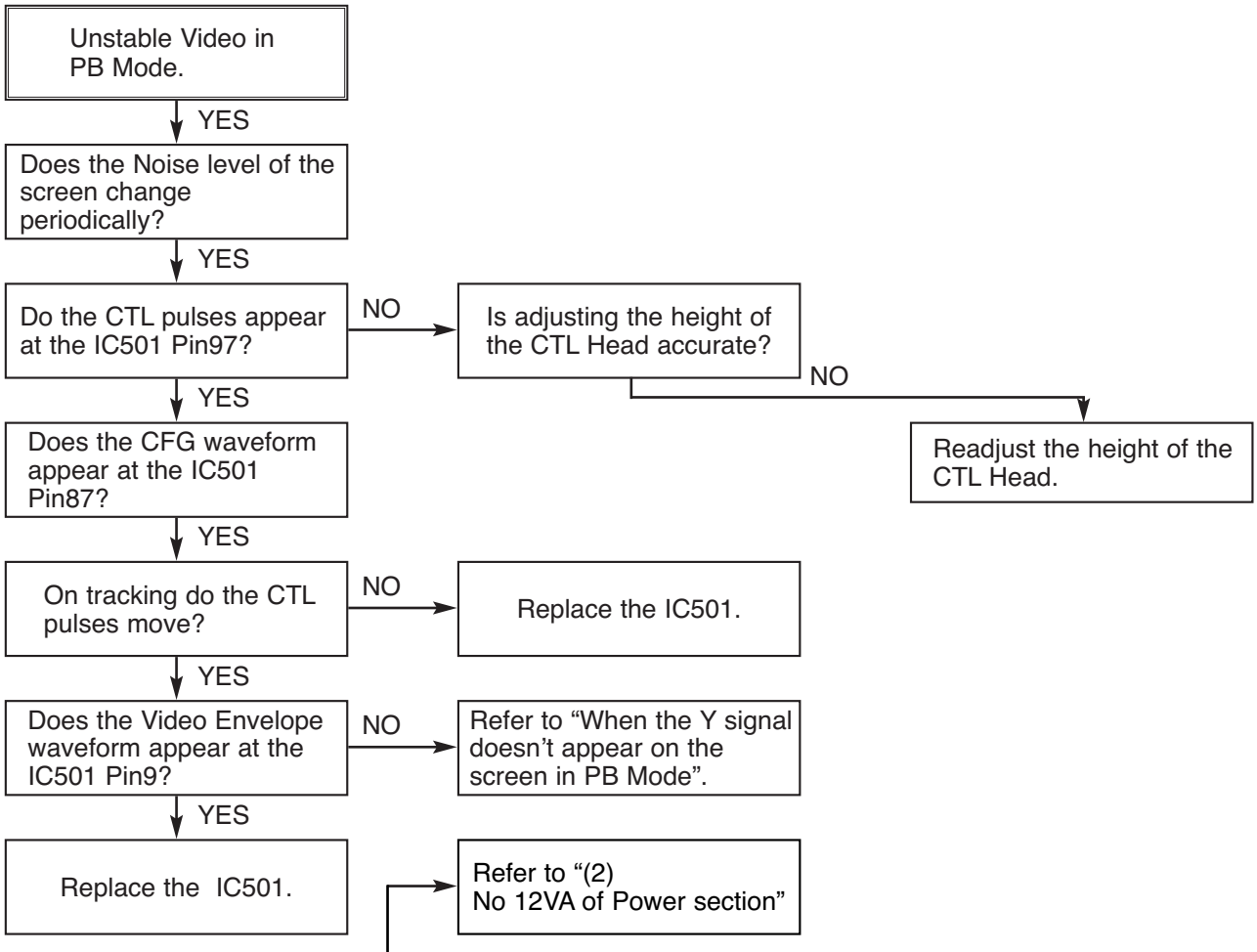
(2) The unstable loading of a Cassette tape


The unstable loading of a Cassette tape
YES
Is 12V applied to the PMC01 Pin8?
NO
Refer to “SMPS DRUM 12 Volt Trouble Shooting”.
YES
Does the “H” signal appear at the IC501 Pin58 during inserting the CST ?
NO
Is 5V applied to the R531 ?
YES
NO
YES
Does the “L” signal appear at the IC501 Pin60 during inserting the CST?
Check the CST SW and the peripheral circuitry.
Refer to SMPS 5.3VA troubleshooting.
NO
YES
Check the Deck Mechanism.
Check the IC501 Pins22, 23, 24, 25.

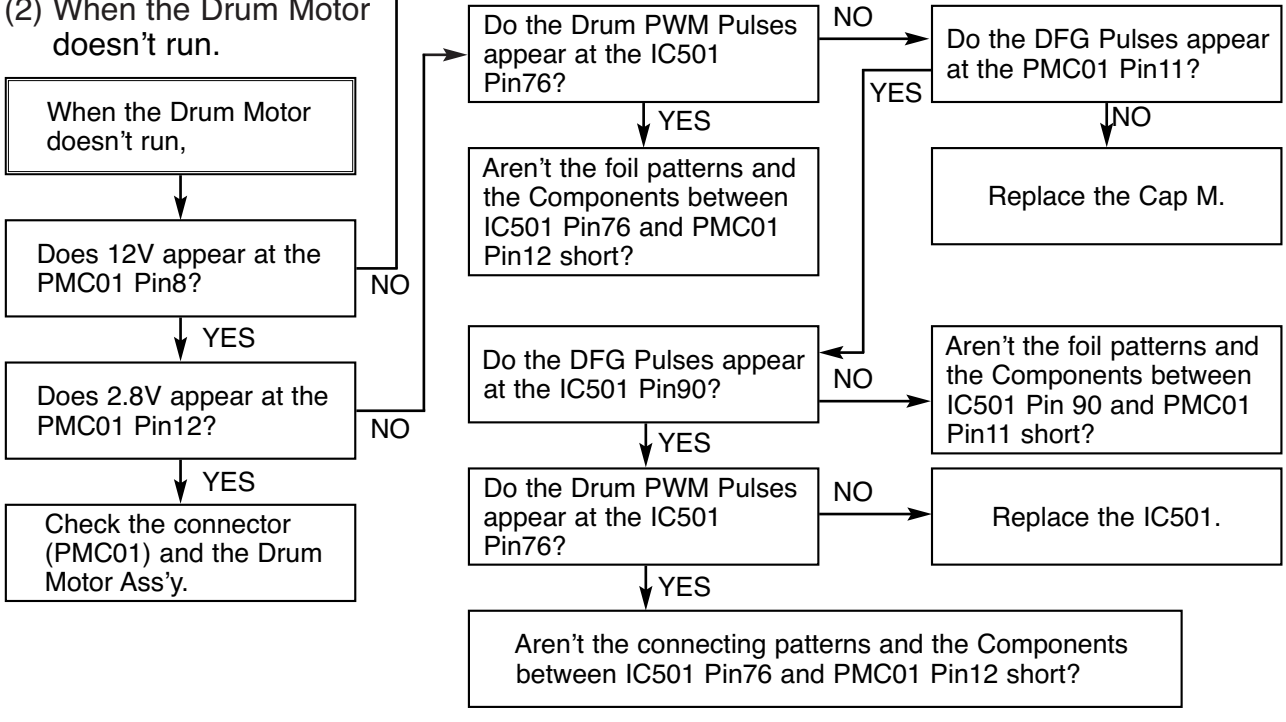
Caution : Auto stop can occur because Grease or Oil has dried up

3. SERVO CIRCUIT

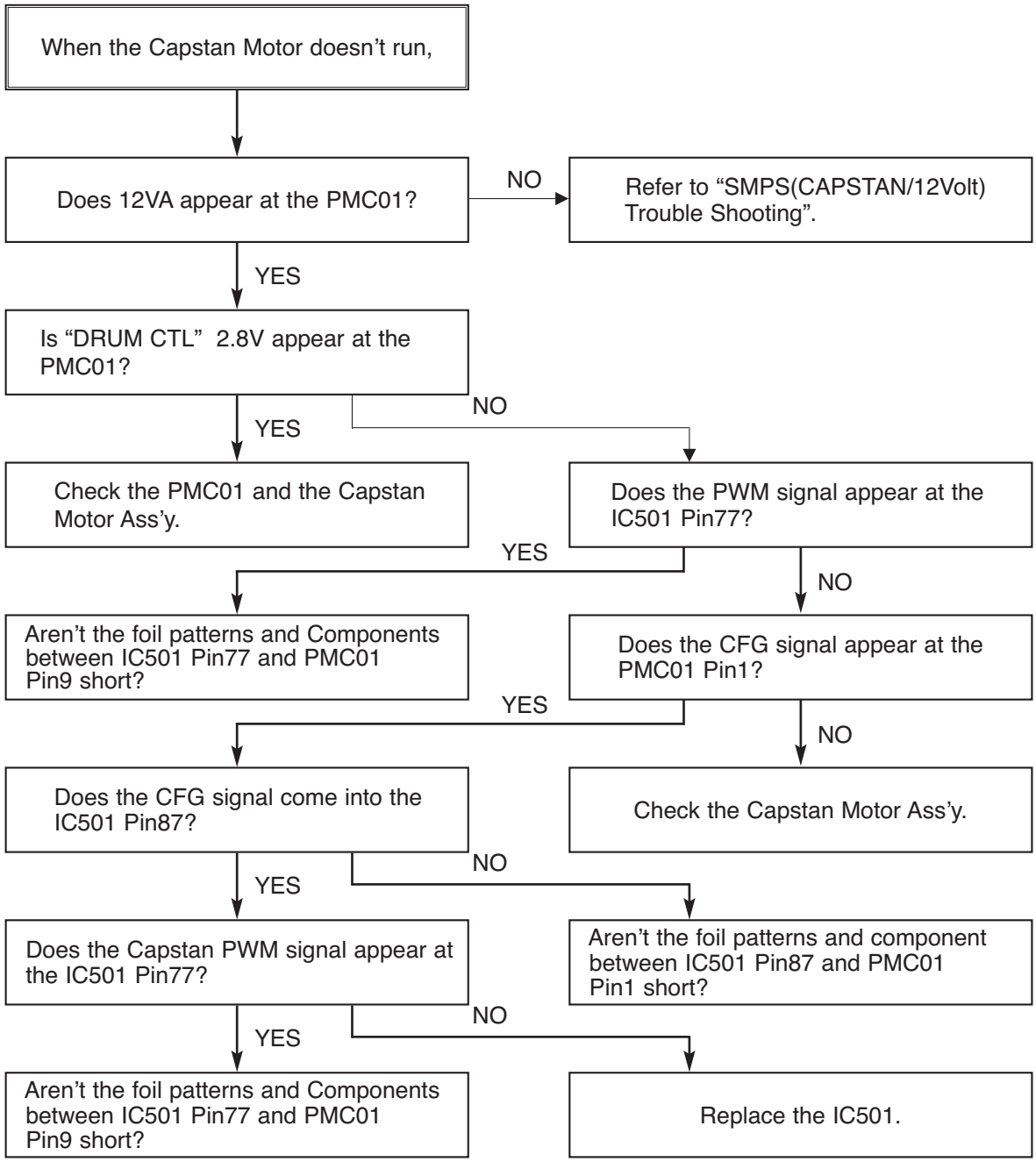
(1) Unstable Video in PB MODE


Unstable Video in PB Mode.
YES
Does the Noise level of the screen change periodically?
YES
Do the CTL pulses appear at the IC501 Pin97?
NO
Is adjusting the height of the CTL Head accurate?
NO
Readjust the height of the CTL Head.
YES
Does the CFG waveform appear at the IC501 Pin87?
YES
On tracking do the CTL pulses move?
NO
Replace the IC501.
YES
Does the Video Envelope waveform appear at the IC501 Pin9?
NO
Refer to "When the Y signal doesn't appear on the screen in PB Mode".
YES
Replace the IC501.

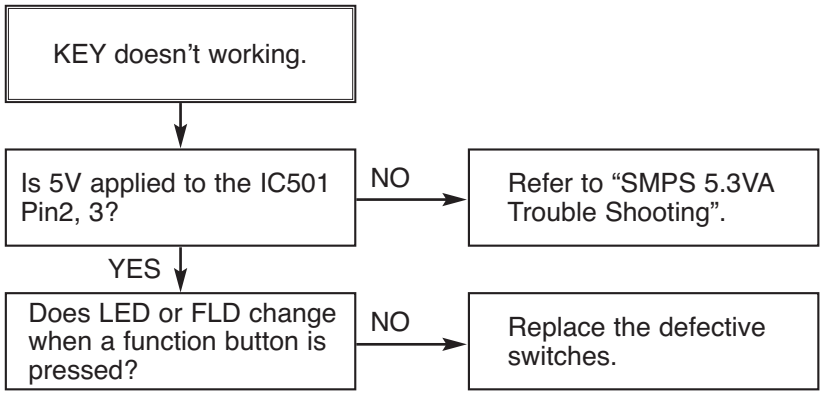
(2) When the Drum Motor doesn't run.


When the Drum Motor doesn't run,
Does 12V appear at the PMC01 Pin8?
NO
Refer to "(2) No 12VA of Power section"
YES
Does 2.8V appear at the PMC01 Pin12?
NO
Do the Drum PWM Pulses appear at the IC501 Pin76?
NO
Do the DFG Pulses appear at the PMC01 Pin11?
YES
NO
Replace the Cap M.
YES
Aren't the foil patterns and the Components between IC501 Pin76 and PMC01 Pin12 short?
YES
Check the connector (PMC01) and the Drum Motor Ass'y.
Do the DFG Pulses appear at the IC501 Pin90?
NO
Aren't the foil patterns and the Components between IC501 Pin 90 and PMC01 Pin11 short?
YES
Do the Drum PWM Pulses appear at the IC501 Pin76?
NO
Replace the IC501.
YES
Aren't the connecting patterns and the Components between IC501 Pin76 and PMC01 Pin12 short?

(3) When the Capstan Motor doesn't run,

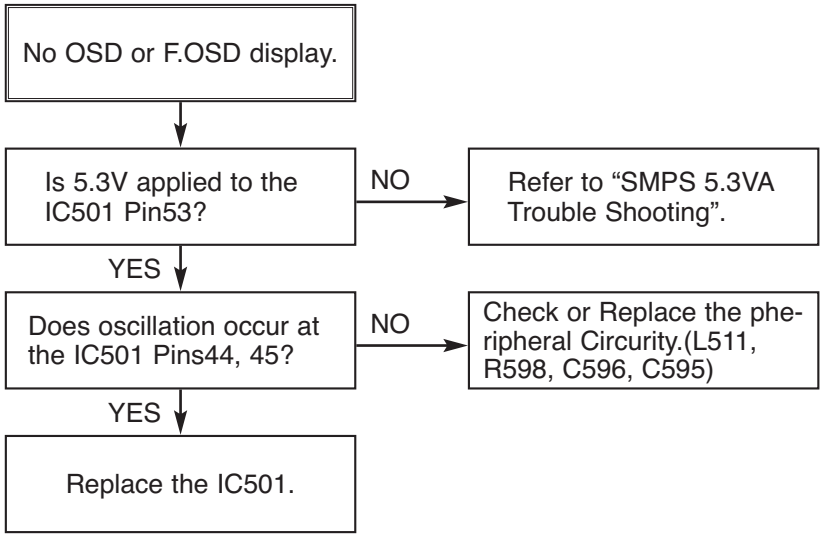

When the Capstan Motor doesn't run,
Does 12VA appear at the PMC01?
NO
Refer to "SMPS(CAPSTAN/12Volt) Trouble Shooting".
YES
Is "DRUM CTL" 2.8V appear at the PMC01?
NO
YES
Check the PMC01 and the Capstan Motor Ass'y.
Does the PWM signal appear at the IC501 Pin77?
YES
NO
Aren't the foil patterns and Components between IC501 Pin77 and PMC01 Pin9 short?
Does the CFG signal appear at the PMC01 Pin1?
YES
NO
Does the CFG signal come into the IC501 Pin87?
Check the Capstan Motor Ass'y.
NO
YES
Does the Capstan PWM signal appear at the IC501 Pin77?
Aren't the foil patterns and component between IC501 Pin87 and PMC01 Pin1 short?
NO
YES
Aren't the foil patterns and Components between IC501 Pin77 and PMC01 Pin9 short?
Replace the IC501.

(4) KEY doesn't working

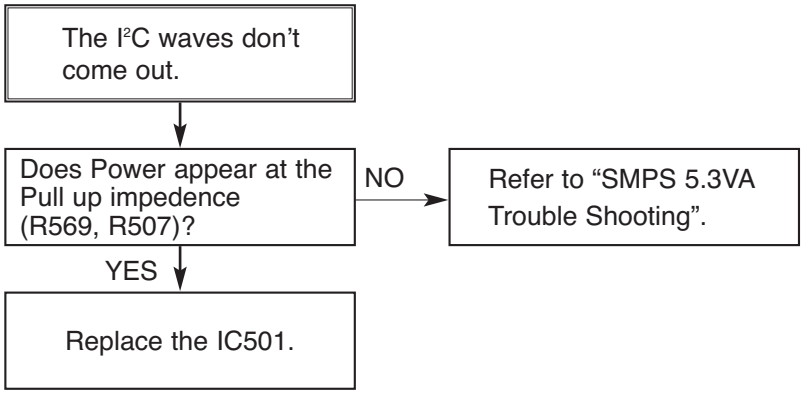

KEY doesn't working.
Is 5V applied to the IC501 Pin2, 3?
NO
Refer to "SMPS 5.3VA Trouble Shooting".
YES
Does LED or FLD change when a function button is pressed?
NO
Replace the defective switches.

4. OSD CIRCUIT

(1) No OSD display.

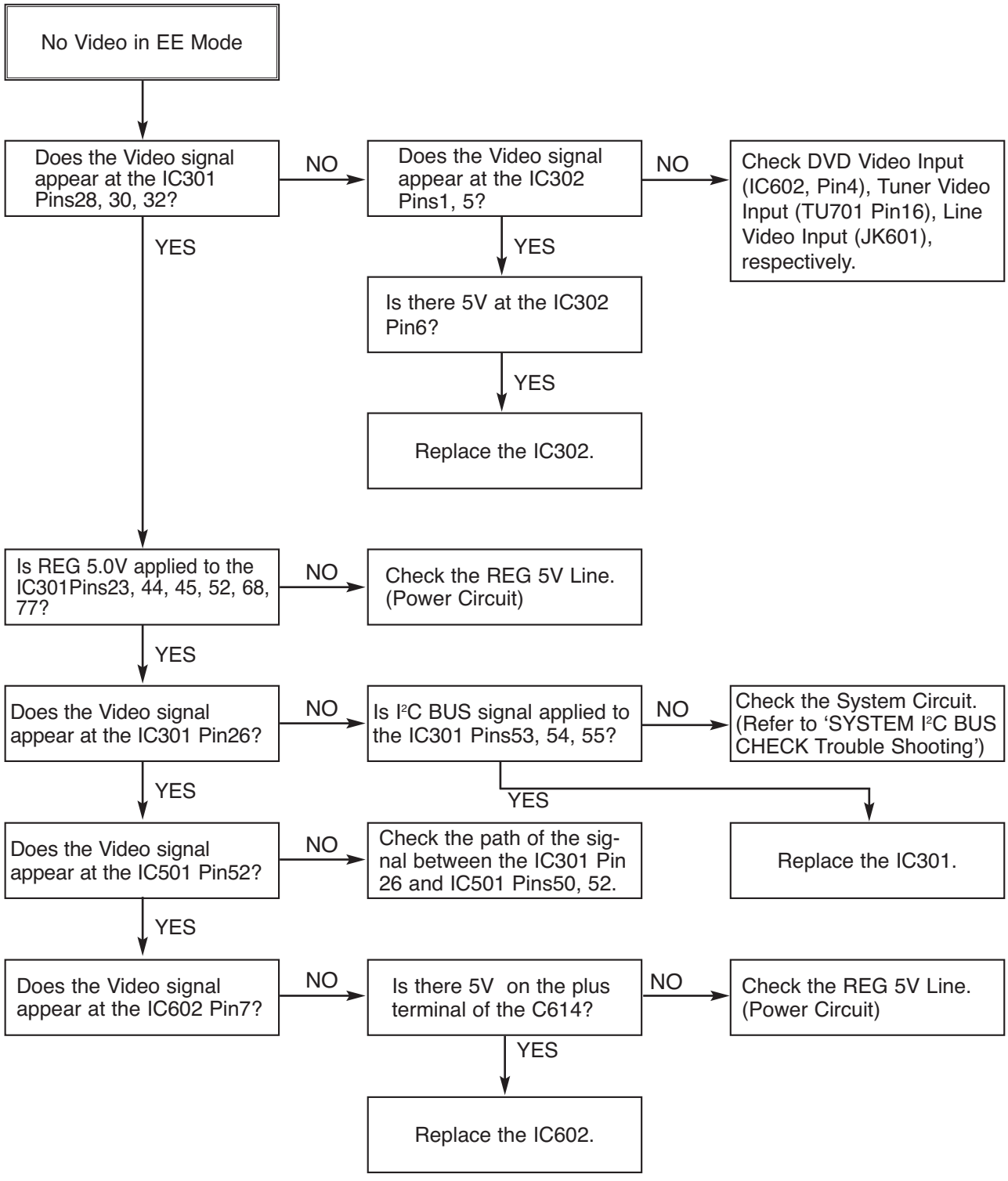

No OSD or F.OSD display.
Is 5.3V applied to the IC501 Pin53?
NO
Refer to "SMPS 5.3VA Trouble Shooting".
YES
Does oscillation occur at the IC501 Pins44, 45?
NO
Check or Replace the pheripheral Circurity.(L511, R598, C596, C595)
YES
Replace the IC501.

(2) I^2C BUS CHECK

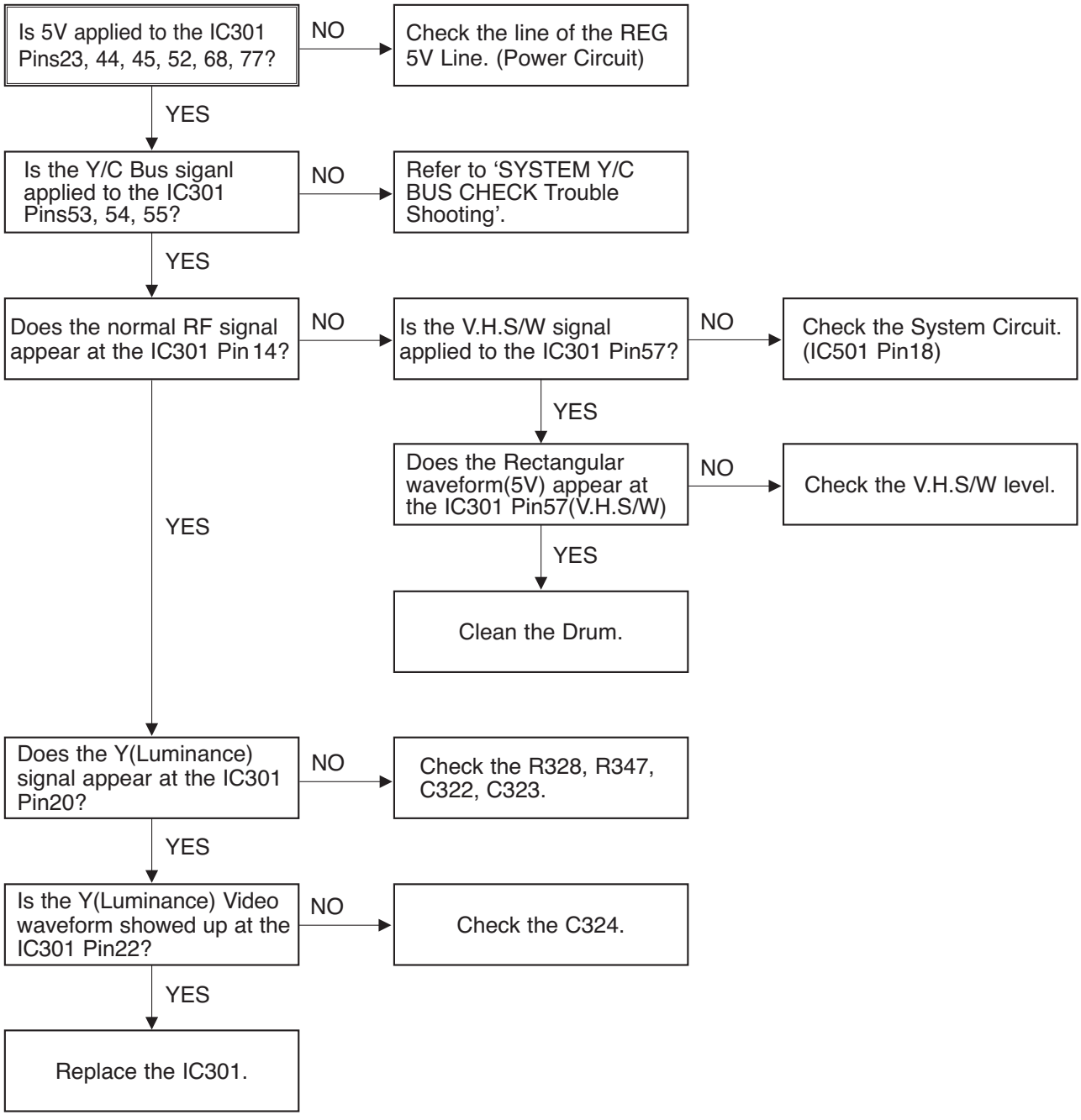

The I²C waves don't come out.
Does Power appear at the Pull up impedence (R569, R507)?
NO
Refer to "SMPS 5.3VA Trouble Shooting".
YES
Replace the IC501.

5. Y/C CIRCUIT

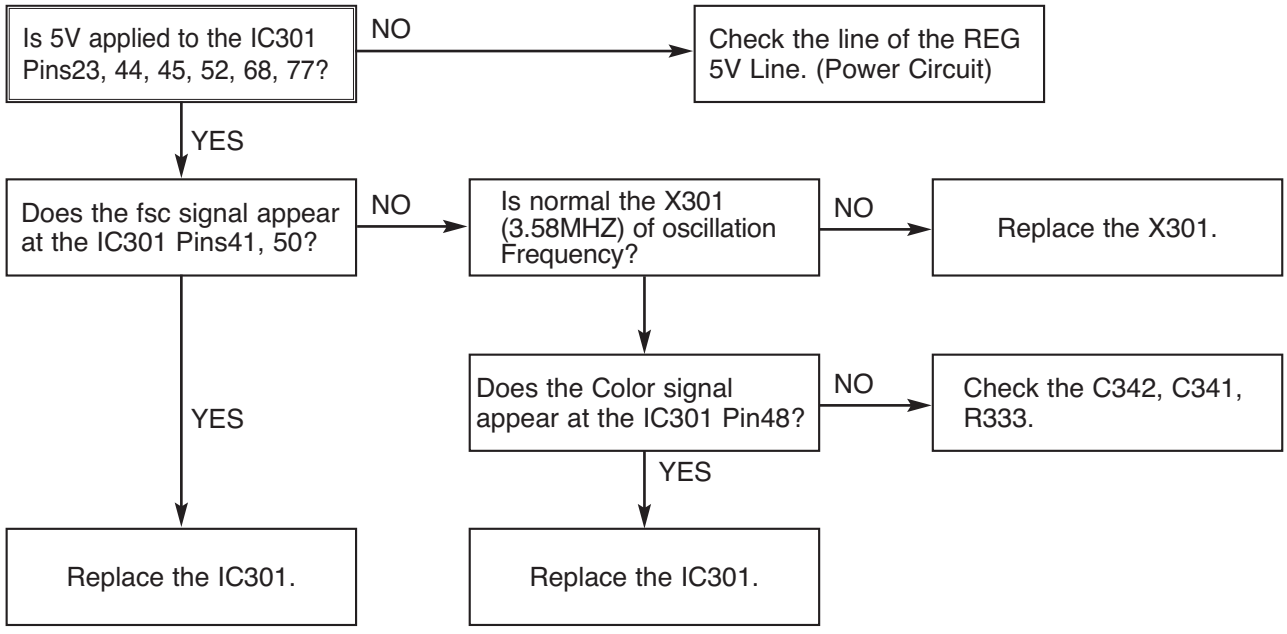
(1) No Video in EE Mode,


No Video in EE Mode
Does the Video signal appear at the IC301 Pins28, 30, 32?
NO
Does the Video signal appear at the IC302 Pins1, 5?
NO
Check DVD Video Input (IC602, Pin4), Tuner Video Input (TU701 Pin16), Line Video Input (JK601), respectively.
YES
YES
Is there 5V at the IC302 Pin6?
YES
Replace the IC302.
Is REG 5.0V applied to the IC301Pins23, 44, 45, 52, 68, 77?
NO
Check the REG 5V Line. (Power Circuit)
YES
Does the Video signal appear at the IC301 Pin26?
NO
Is I²C BUS signal applied to the IC301 Pins53, 54, 55?
NO
Check the System Circuit. (Refer to 'SYSTEM I²C BUS CHECK Trouble Shooting')
YES
YES
Does the Video signal appear at the IC501 Pin52?
NO
Check the path of the signal between the IC301 Pin 26 and IC501 Pins50, 52.
Replace the IC301.
YES
Does the Video signal appear at the IC602 Pin7?
NO
Is there 5V on the plus terminal of the C614?
NO
Check the REG 5V Line. (Power Circuit)
YES
Replace the IC602.

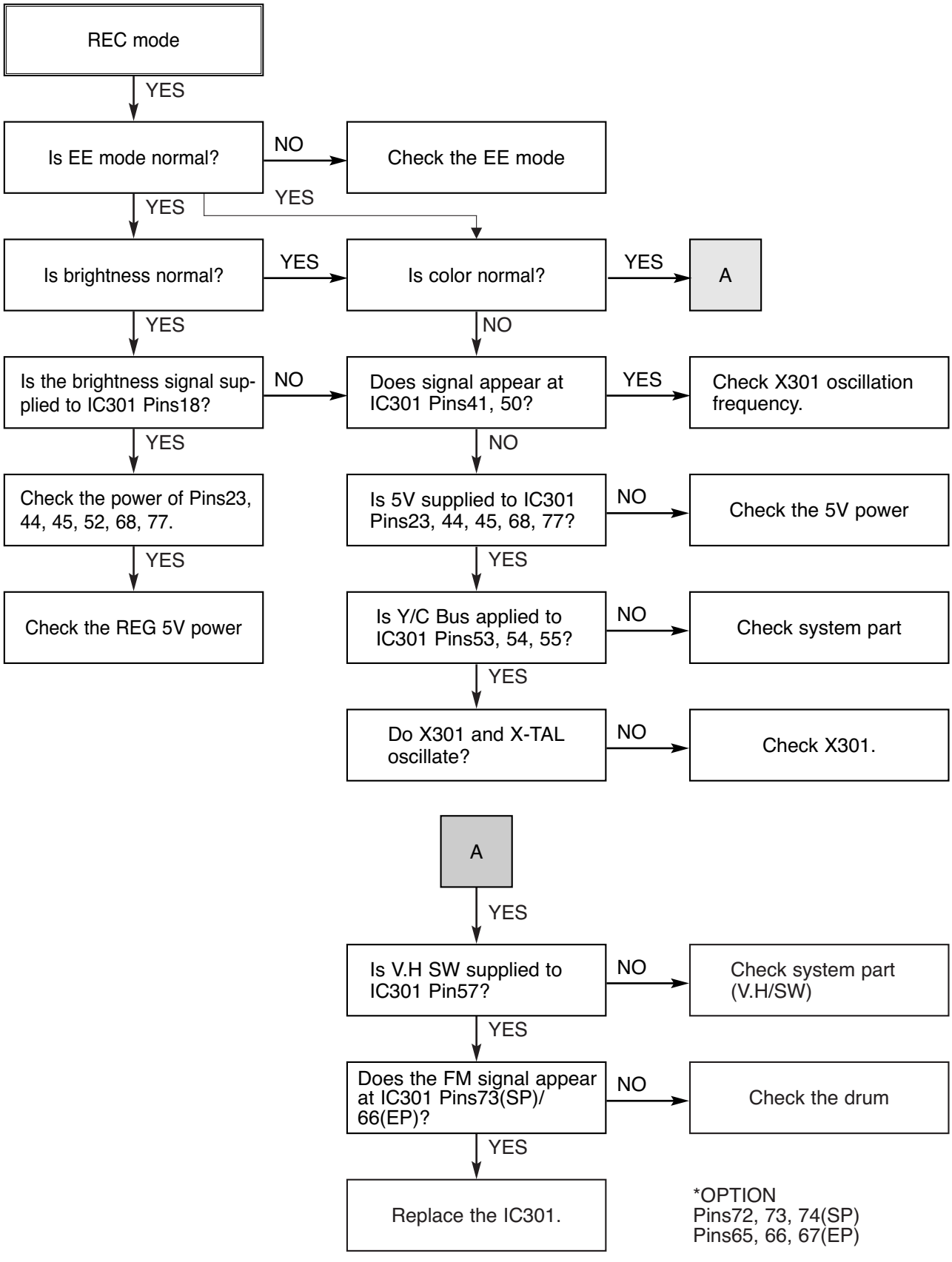
(2) When the Y(Luminance) signal doesn't appear on the screen in PB Mode,


Is 5V applied to the IC301 Pins23, 44, 45, 52, 68, 77?
NO
Check the line of the REG 5V Line. (Power Circuit)
YES
Is the Y/C Bus siganl applied to the IC301 Pins53, 54, 55?
NO
Refer to 'SYSTEM Y/C BUS CHECK Trouble Shooting'.
YES
Does the normal RF signal appear at the IC301 Pin 14?
NO
Is the V.H.S/W signal applied to the IC301 Pin57?
NO
Check the System Circuit. (IC501 Pin18)
YES
Does the Rectangular waveform(5V) appear at the IC301 Pin57(V.H.S/W)
NO
Check the V.H.S/W level.
YES
Clean the Drum.
YES
Does the Y(Luminance) signal appear at the IC301 Pin20?
NO
Check the R328, R347, C322, C323.
YES
Is the Y(Luminance) Video waveform showed up at the IC301 Pin22?
NO
Check the C324.
YES
Replace the IC301.

(3) When the C(Color) signal doesn't appear on the screen in PB Mode,

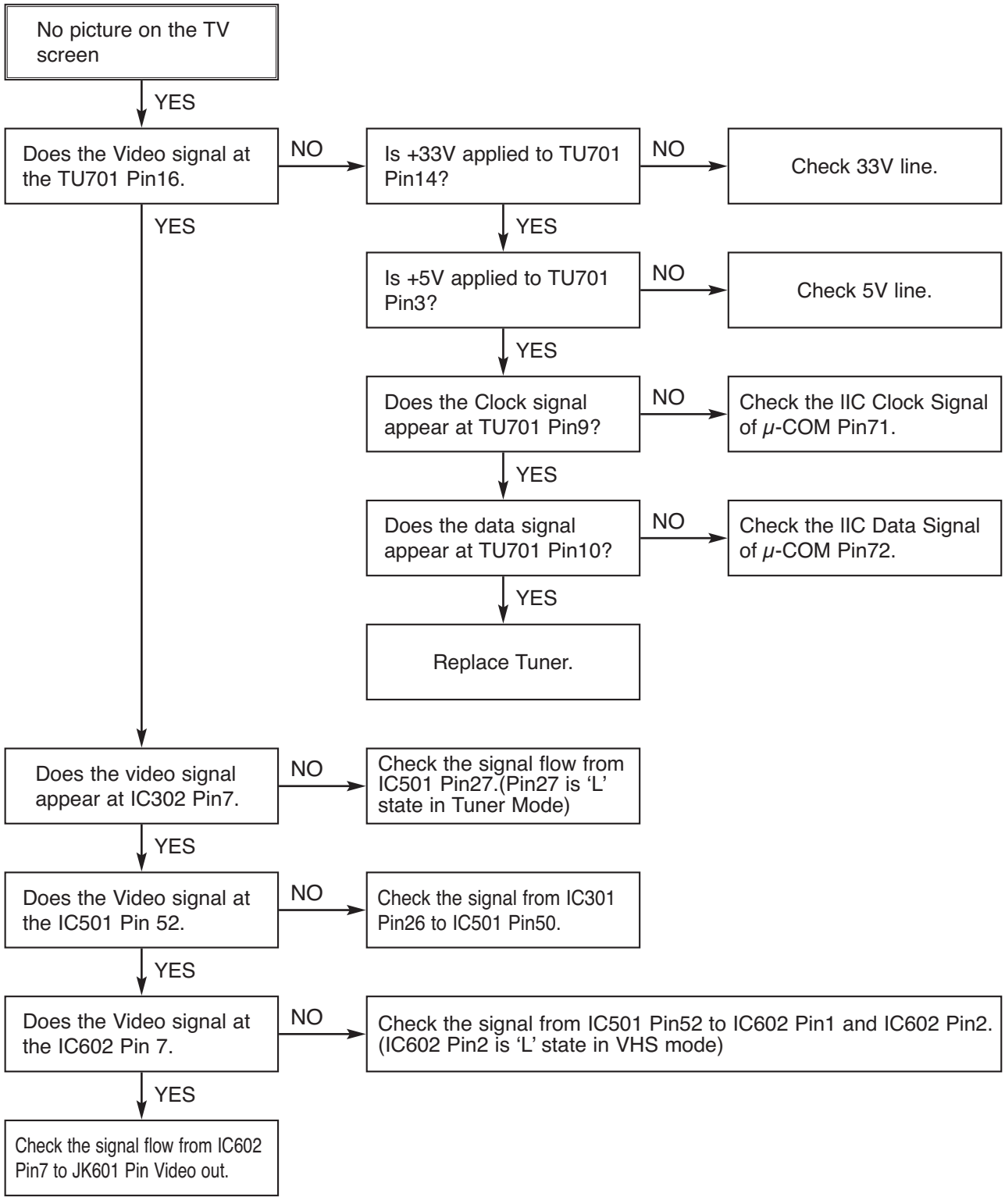

Is 5V applied to the IC301 Pins23, 44, 45, 52, 68, 77?
NO
Check the line of the REG 5V Line. (Power Circuit)
YES
Does the fsc signal appear at the IC301 Pins41, 50?
NO
Is normal the X301 (3.58MHZ) of oscillation Frequency?
NO
Replace the X301.
YES
Does the Color signal appear at the IC301 Pin48?
NO
Check the C342, C341, R333.
YES
Replace the IC301.
Replace the IC301.

(4) When the Video signal doesn't appear on the screen in REC Mode,

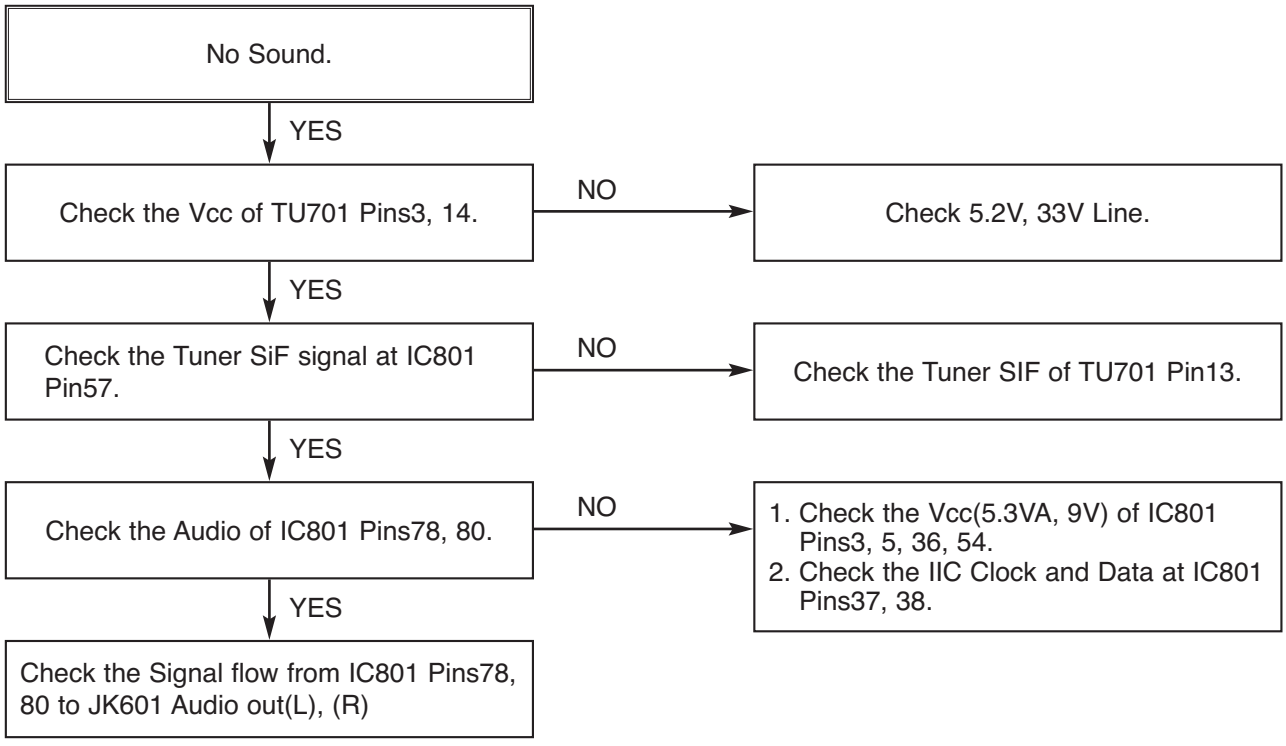


6. Tuner/IF CIRCUIT

(1) No Picture on the TV screen

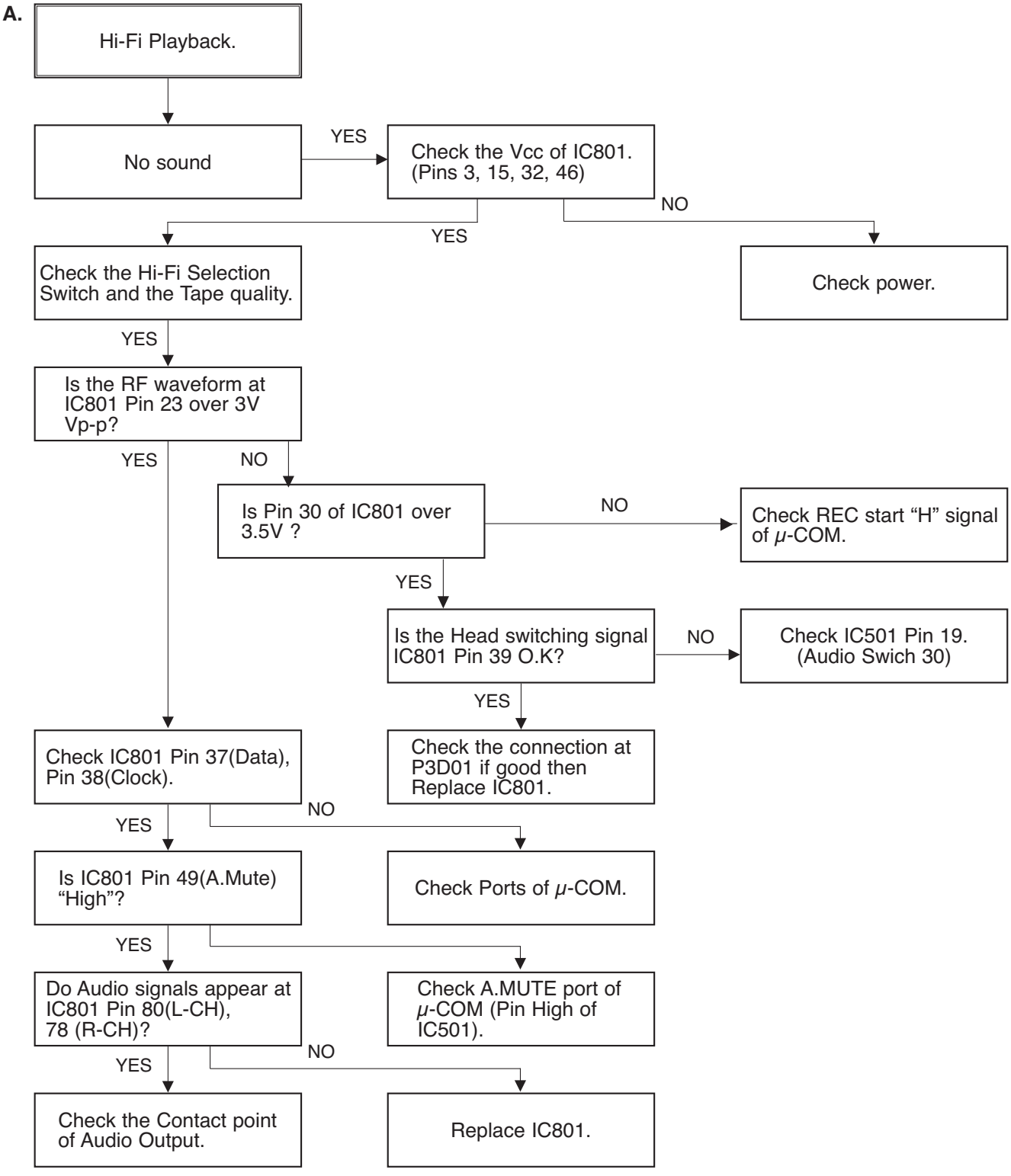

No picture on the TV screen
YES
Does the Video signal at the TU701 Pin16.
NO
Is +33V applied to TU701 Pin14?
NO
Check 33V line.
YES
YES
Is +5V applied to TU701 Pin3?
NO
Check 5V line.
YES
Does the Clock signal appear at TU701 Pin9?
NO
Check the IIC Clock Signal of μ-COM Pin71.
YES
Does the data signal appear at TU701 Pin10?
NO
Check the IIC Data Signal of μ-COM Pin72.
YES
Replace Tuner.
Does the video signal appear at IC302 Pin7.
NO
Check the signal flow from IC501 Pin27.(Pin27 is 'L' state in Tuner Mode)
YES
Does the Video signal at the IC501 Pin 52.
NO
Check the signal from IC301 Pin26 to IC501 Pin50.
YES
Does the Video signal at the IC602 Pin 7.
NO
Check the signal from IC501 Pin52 to IC602 Pin1 and IC602 Pin2. (IC602 Pin2 is 'L' state in VHS mode)
YES
Check the signal flow from IC602 Pin7 to JK601 Pin Video out.

(2) No Sound

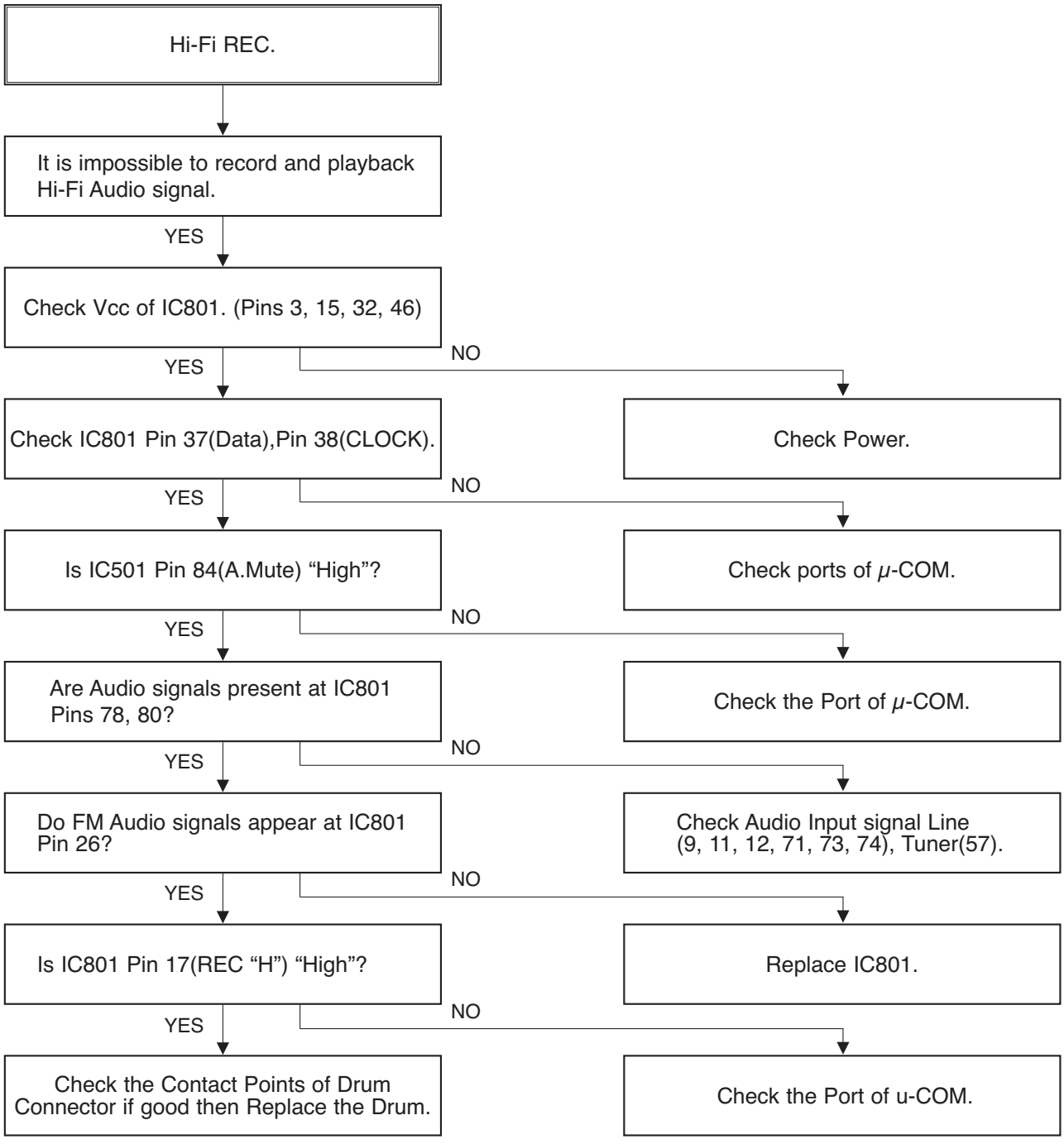

No Sound.
YES
Check the Vcc of TU701 Pins3, 14.
NO
Check 5.2V, 33V Line.
YES
Check the Tuner SiF signal at IC801 Pin57.
NO
Check the Tuner SIF of TU701 Pin13.
YES
Check the Audio of IC801 Pins78, 80.
NO
1. Check the Vcc(5.3VA, 9V) of IC801 Pins3, 5, 36, 54.
2. Check the IIC Clock and Data at IC801 Pins37, 38.
YES
Check the Signal flow from IC801 Pins78, 80 to JK601 Audio out(L), (R)

7. Hi-Fi Circuit

A.


Hi-Fi Playback.
No sound
YES
Check the Vcc of IC801. (Pins 3, 15, 32, 46)
NO
YES
Check power.
Check the Hi-Fi Selection Switch and the Tape quality.
YES
Is the RF waveform at IC801 Pin 23 over 3V Vp-p?
YES
NO
Is Pin 30 of IC801 over 3.5V ?
NO
Check REC start “H” signal of μ-COM.
YES
Is the Head switching signal IC801 Pin 39 O.K?
NO
Check IC501 Pin 19. (Audio Swich 30)
YES
Check IC801 Pin 37(Data), Pin 38(Clock).
Check the connection at P3D01 if good then Replace IC801.
NO
YES
Is IC801 Pin 49(A.Mute) “High”?
Check Ports of μ-COM.
YES
Do Audio signals appear at IC801 Pin 80(L-CH), 78 (R-CH)?
Check A.MUTE port of μ-COM (Pin High of IC501).
NO
YES
Check the Contact point of Audio Output.
Replace IC801.

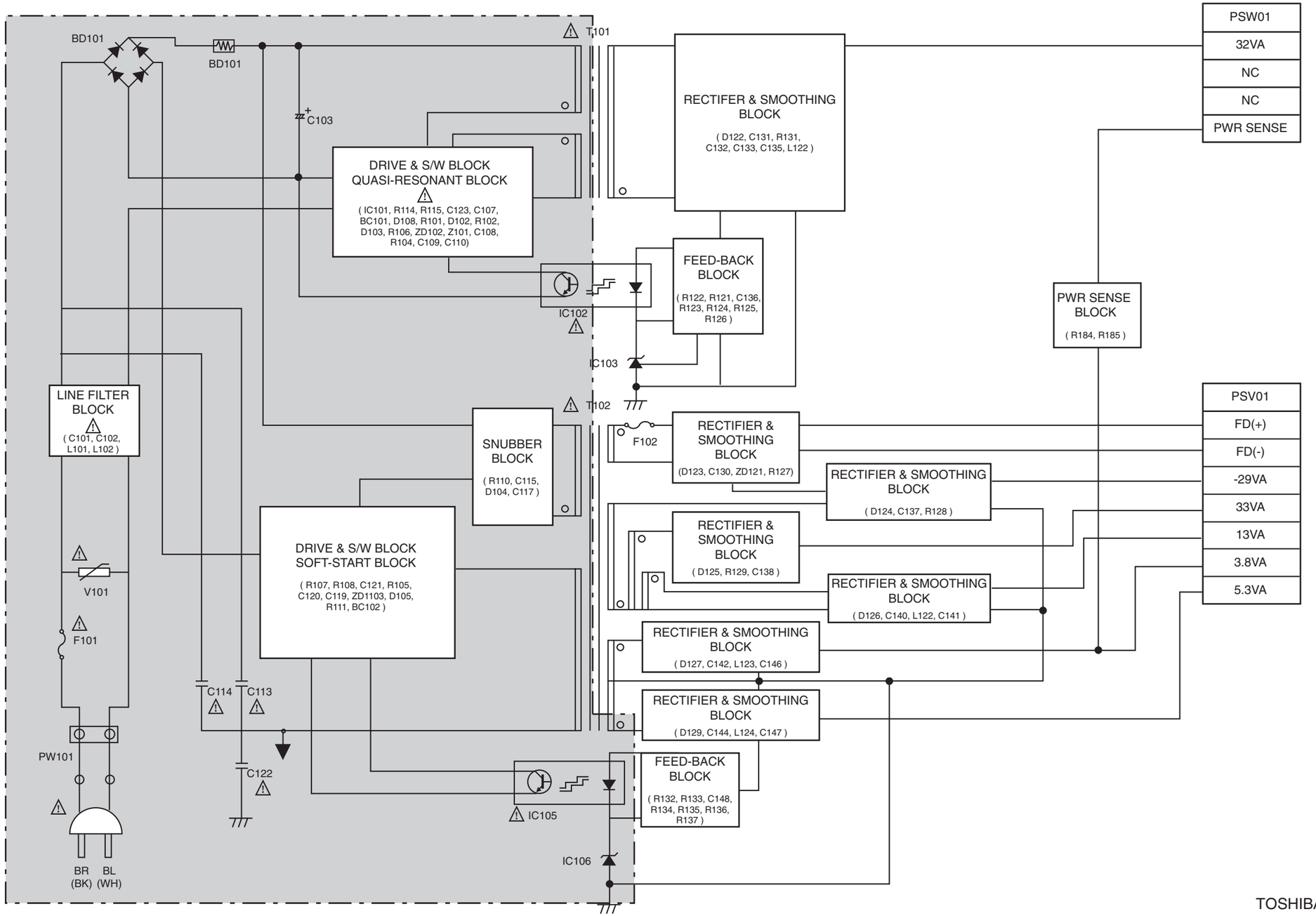
B.


Hi-Fi REC.
It is impossible to record and playback Hi-Fi Audio signal.
YES
Check Vcc of IC801. (Pins 3, 15, 32, 46)
NO
YES
Check Power.
Check IC801 Pin 37(Data),Pin 38(CLOCK).
NO
YES
Check ports of μ-COM.
Is IC501 Pin 84(A.Mute) “High”?
NO
YES
Check the Port of μ-COM.
Are Audio signals present at IC801 Pins 78, 80?
NO
YES
Check Audio Input signal Line (9, 11, 12, 71, 73, 74), Tuner(57).
Do FM Audio signals appear at IC801 Pin 26?
NO
YES
Replace IC801.
Is IC801 Pin 17(REC “H”) “High”?
NO
YES
Check the Port of u-COM.
Check the Contact Points of Drum Connector if good then Replace the Drum.

MEMO

BLOCK DIAGRAMS

1. POWER(SMPS) BLOCK DIAGRAM 1



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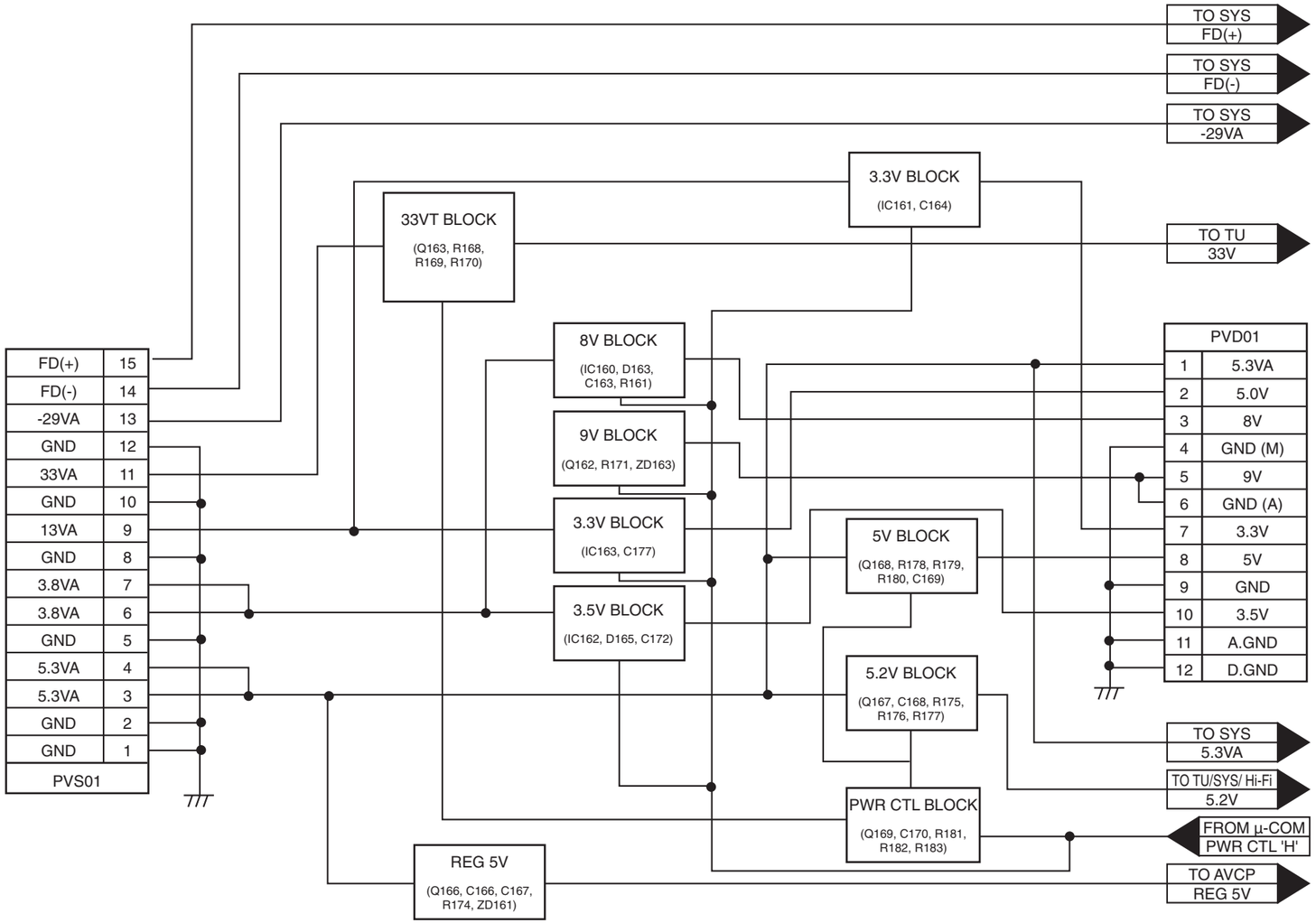
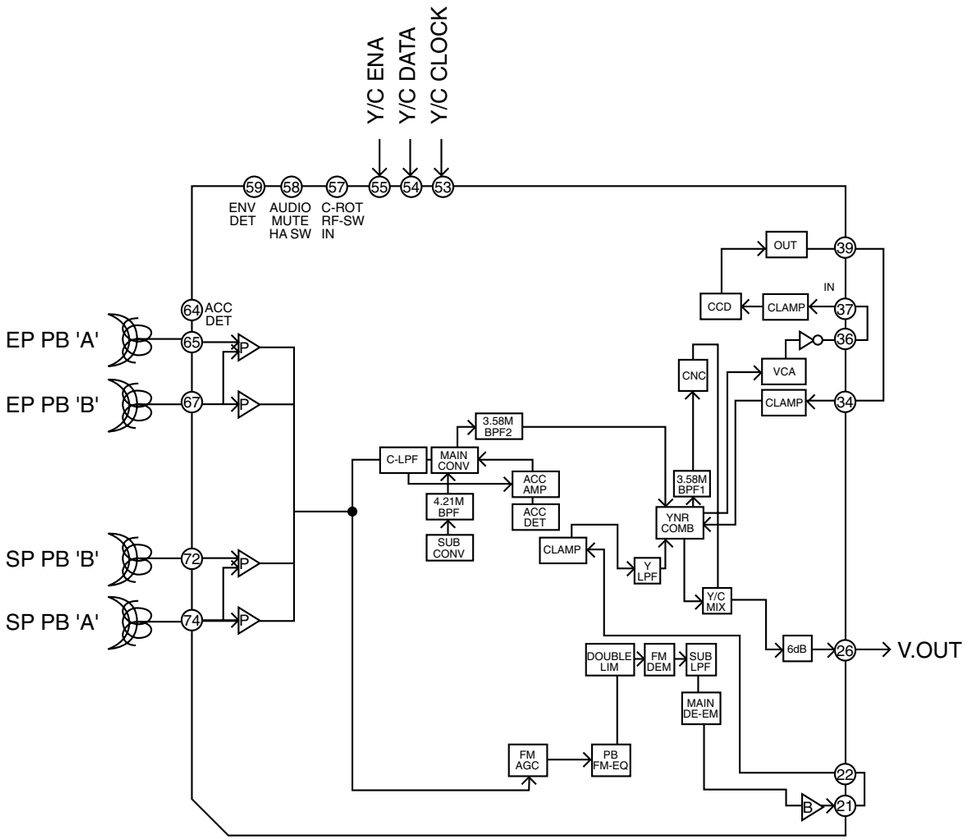
2. POWER(SMPS) BLOCK DIAGRAM 2



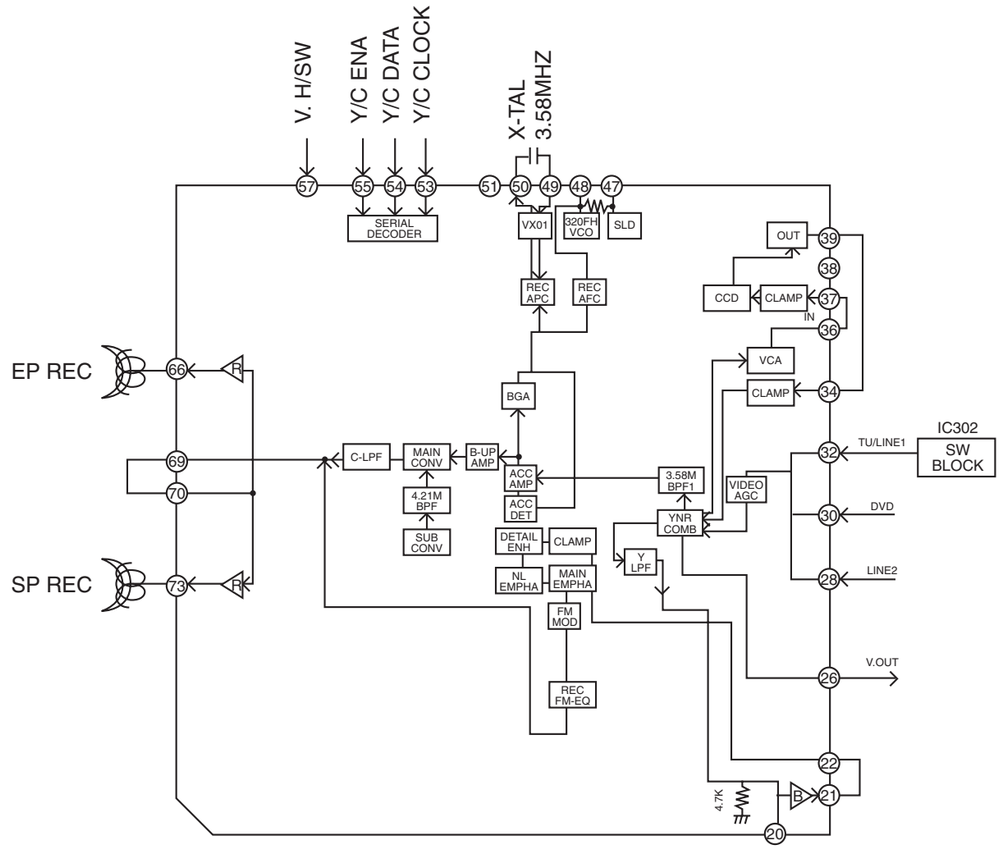
TOSHIBA
LH-C444M

3. Y/C BLOCK DIAGRAM

(PB Mode)



(REC Mode)



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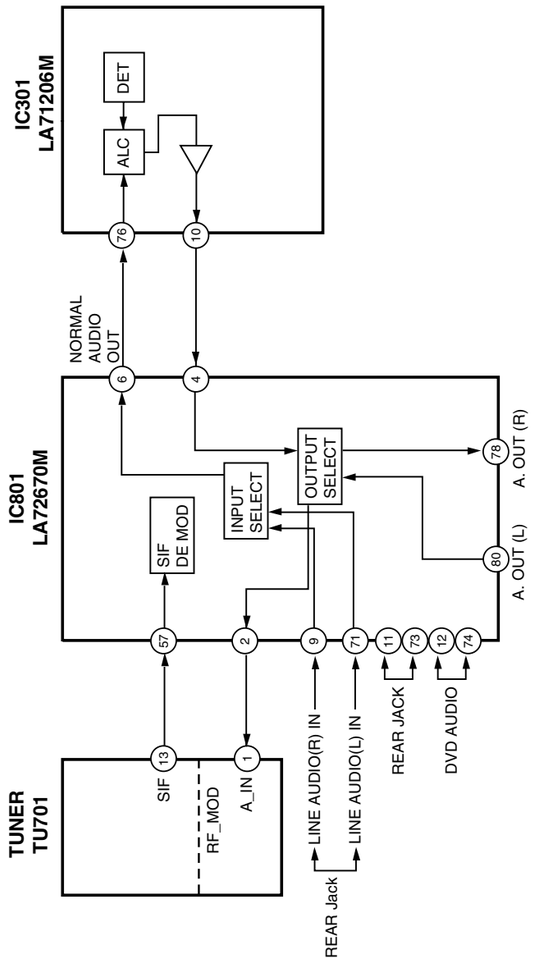
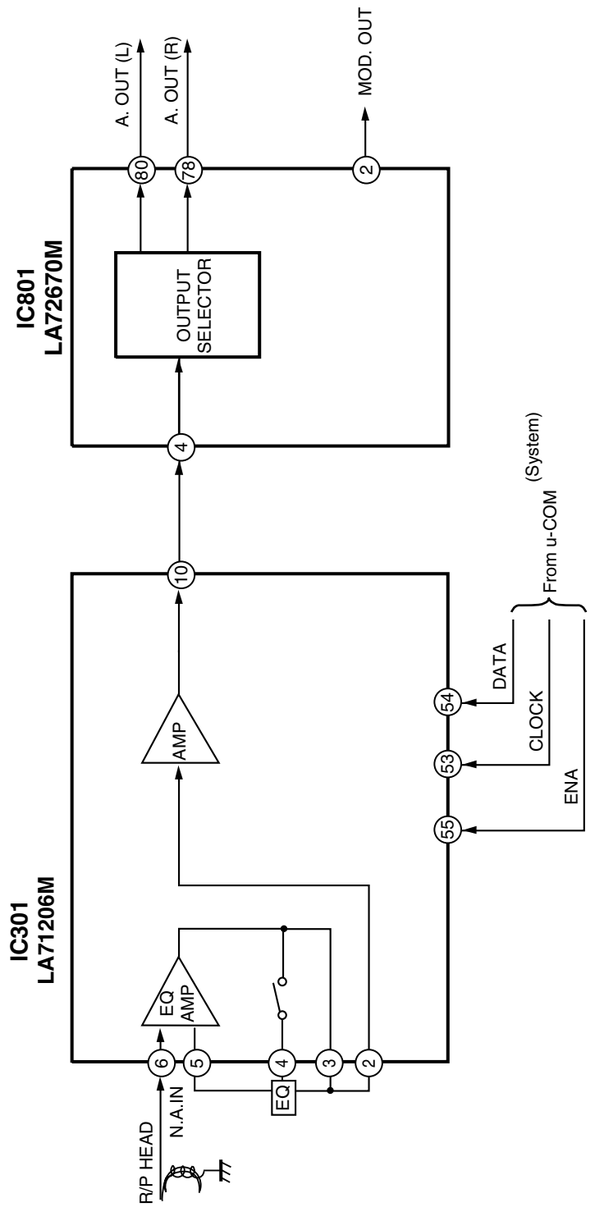
4. NORMAL AUDIO BLOCK DIAGRAM

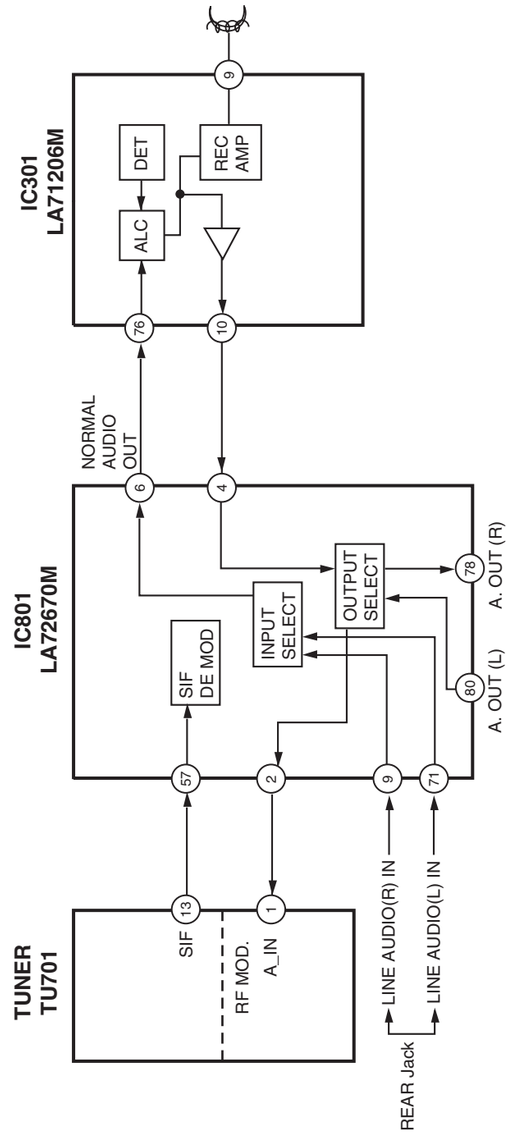
1) EE Mode



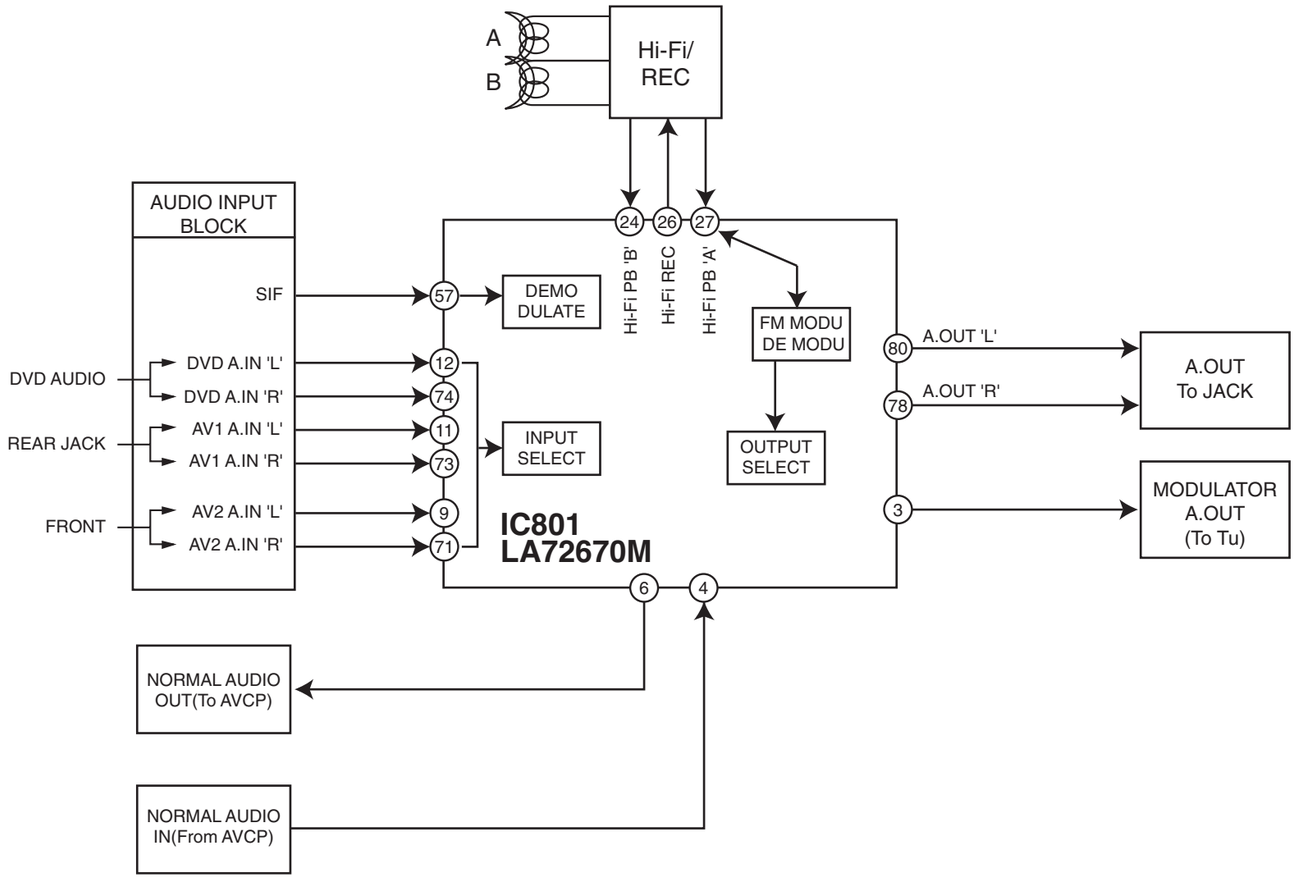
2) PB Mode



3) REC Mode



5. Hi-Fi BLOCK DIAGRAM



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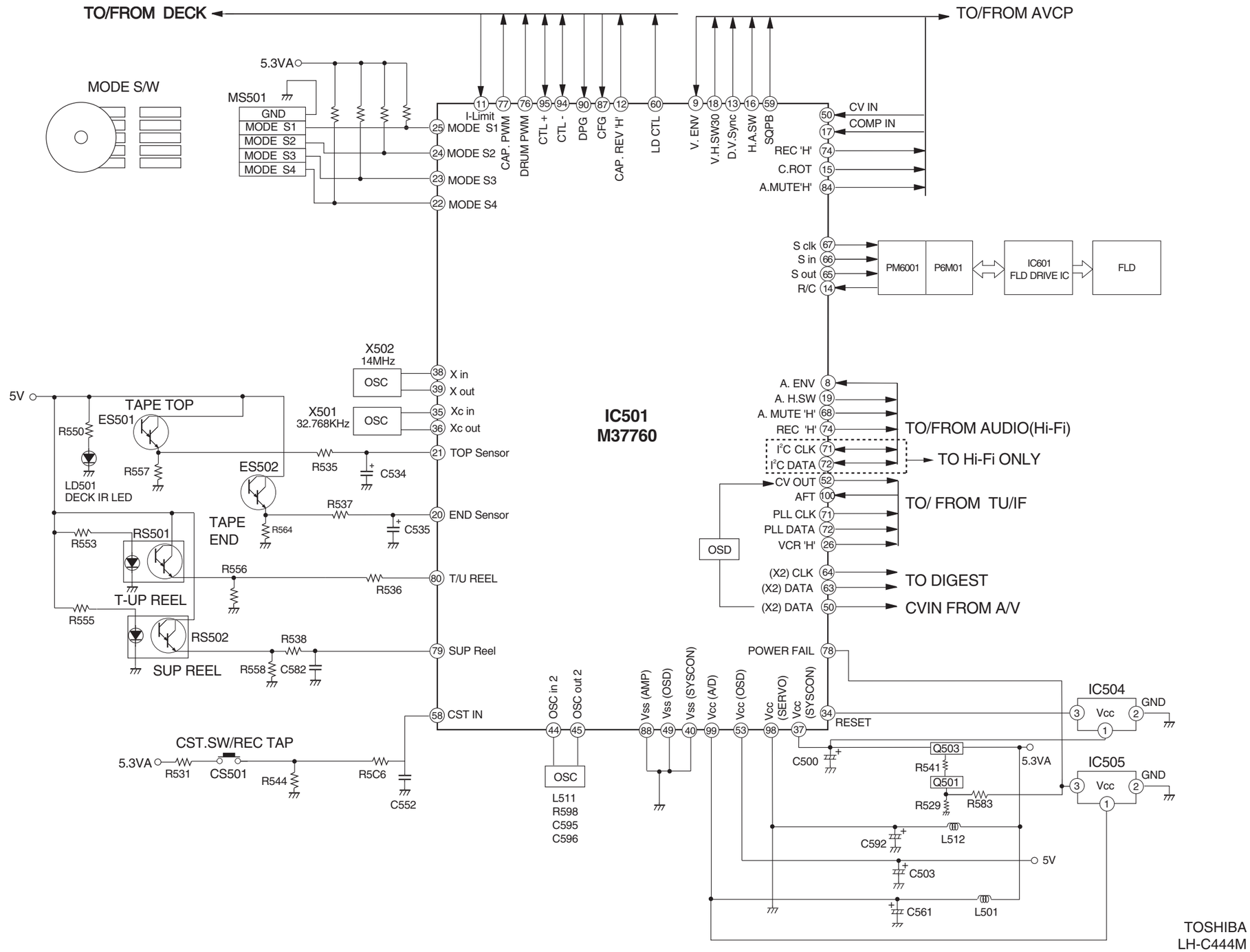
6. SYSTEM BLOCK DIAGRAM



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CIRCUIT DIAGRAMS

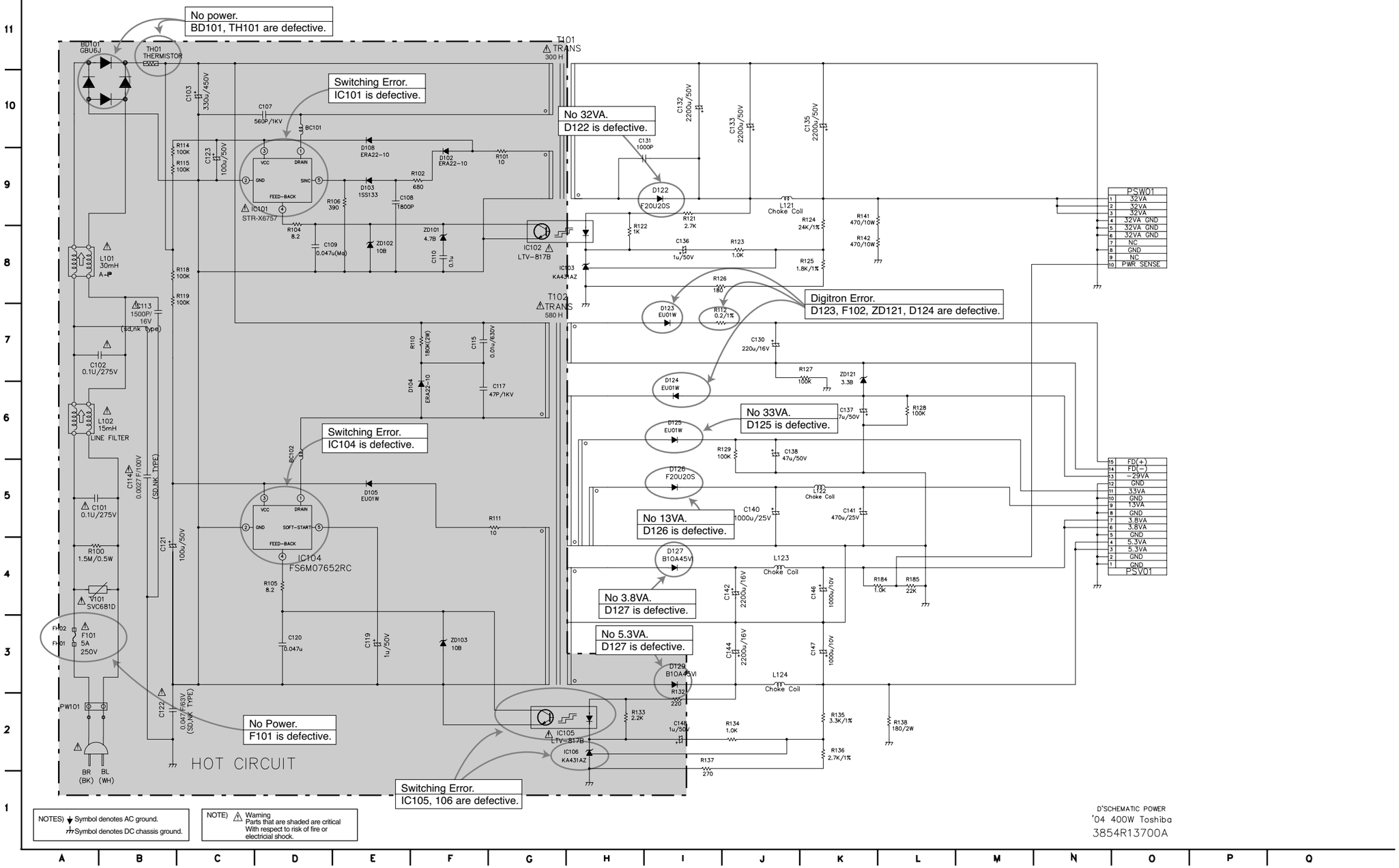
1. POWER(SMPS) CIRCUIT DIAGRAM 1

IMPORTANT SAFETY NOTICE

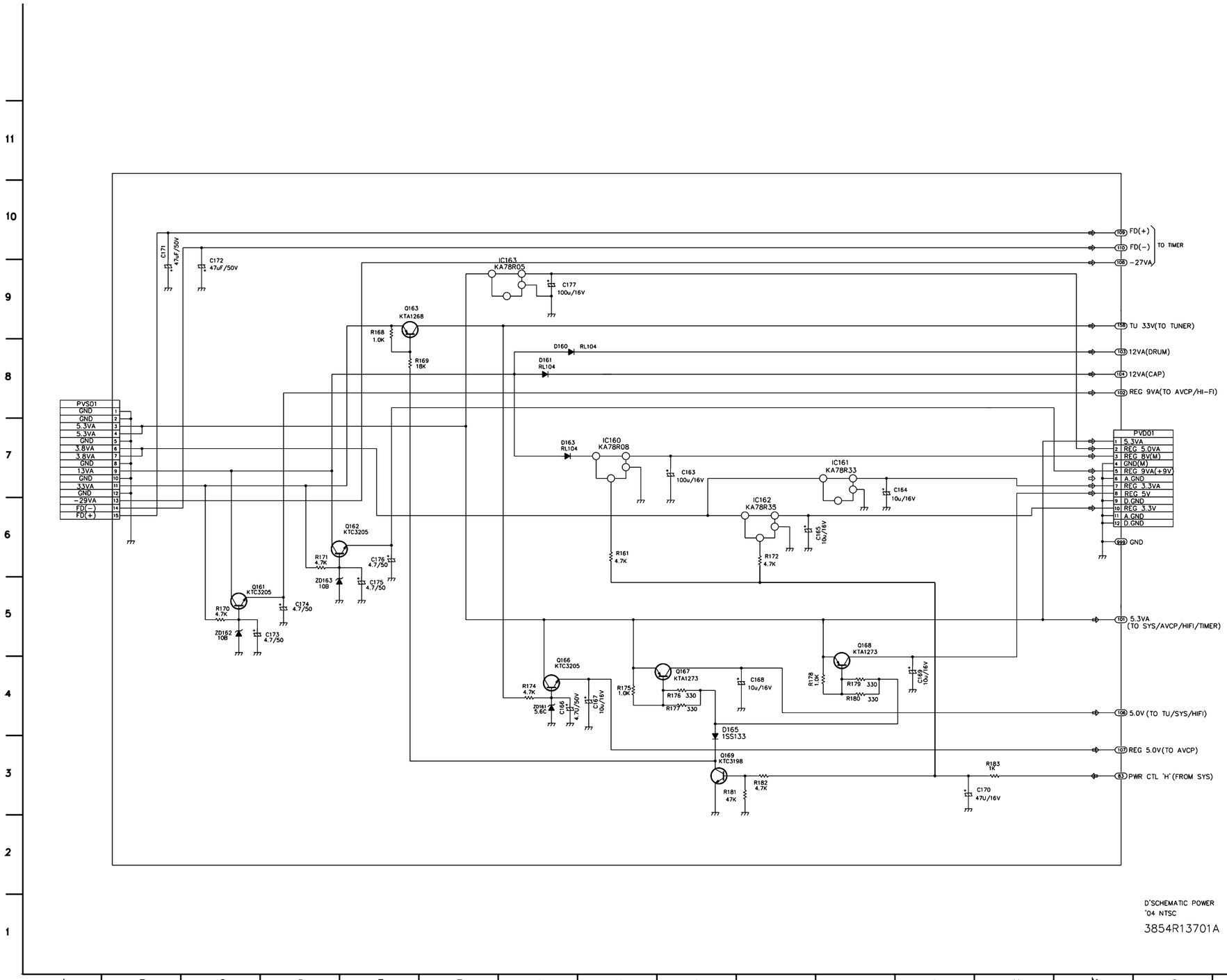
WHEN SERVICING THIS CHASSIS, UNDER NO CIRCUMSTANCES SHOULD THE ORIGINAL DESIGN BE MODIFIED OR ALTERED WITHOUT PERMISSION FROM THE TOSHIBA ELECTRONICS CORPORATION. ALL COMPONENTS SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIRCUIT. SPECIAL COMPONENTS ARE SHADED ON THE SCHEMATIC FOR EASY IDENTIFICATION.
THIS CIRCUIT DIAGRAM MAY OCCASIONALLY DIFFER FROM THE ACTUAL CIRCUIT USED. THIS WAY, IMPLEMENTATION OF THE LATEST SAFETY AND PERFORMANCE IMPROVEMENT CHANGES INTO THE SET IS NOT DELAYED UNTIL THE NEW SERVICE LITERATURE IS PRINTED.

NOTE :

1. Shaded(■) parts are critical for safety. Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmeter during Play mode.

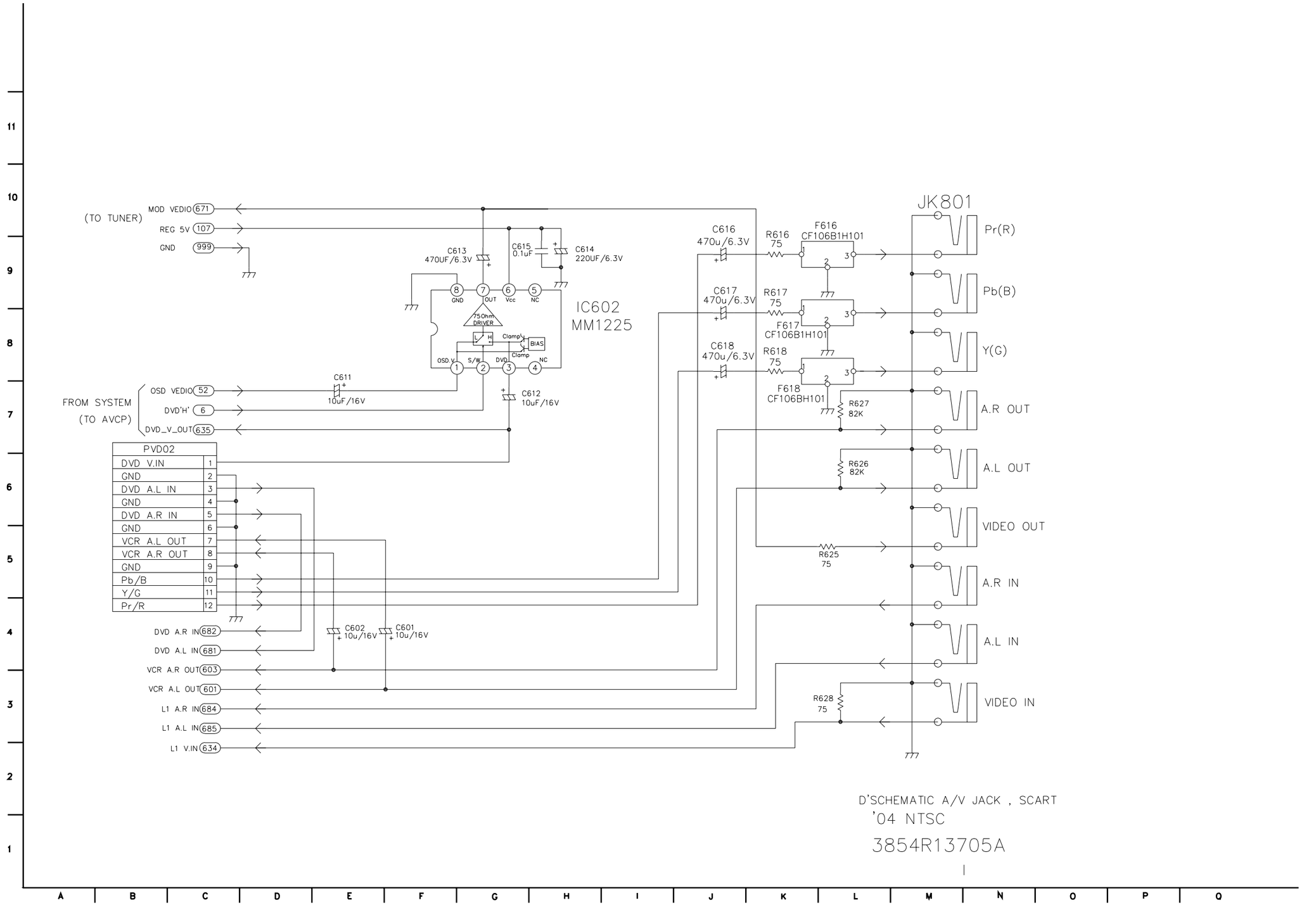


2. POWER(SMPS) CIRCUIT DIAGRAM 2



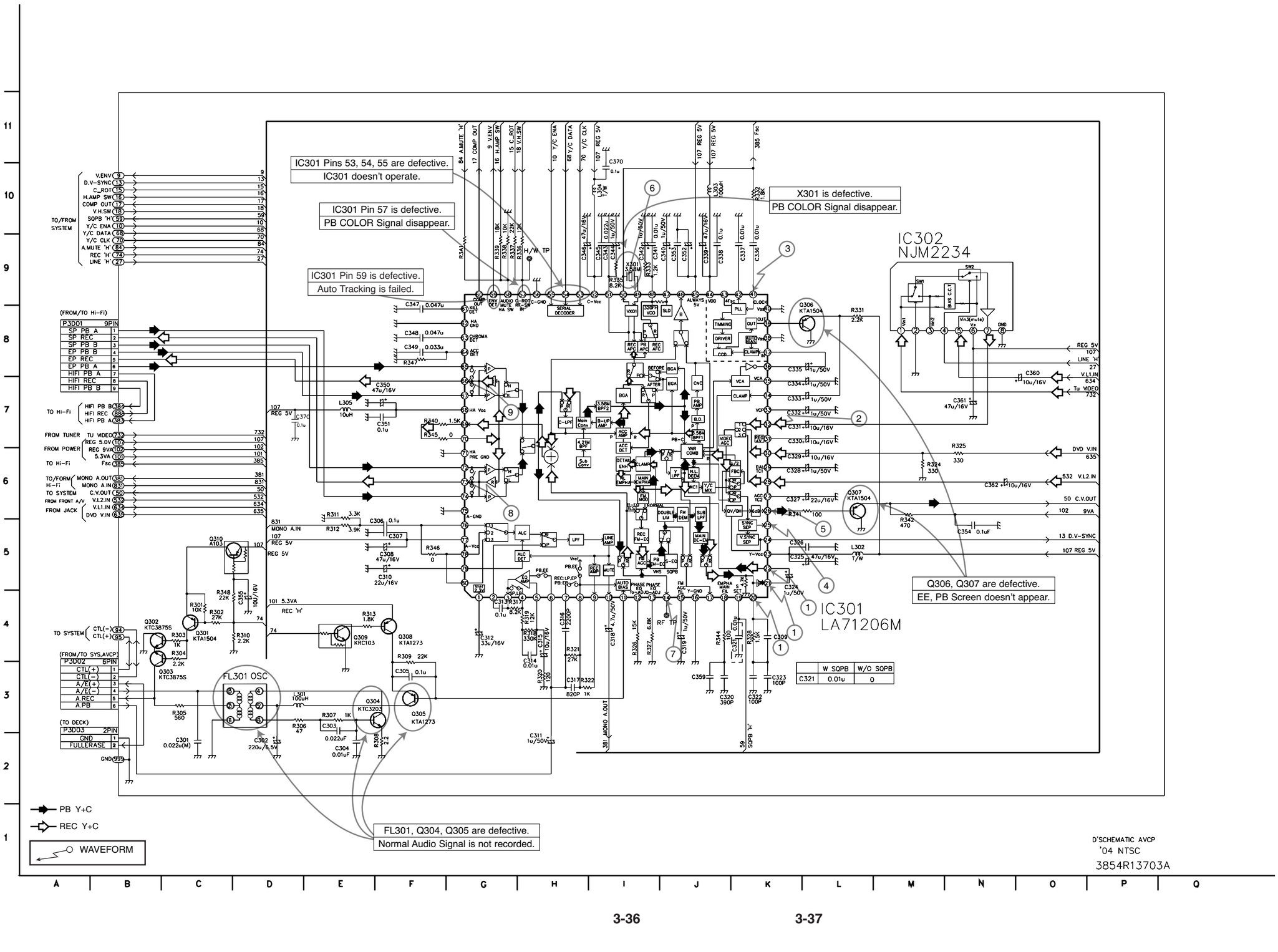
D'SCHEMATIC POWER
'04 NTSC
3854R13701A

3. JACK, TUNER CIRCUIT DIAGRAM

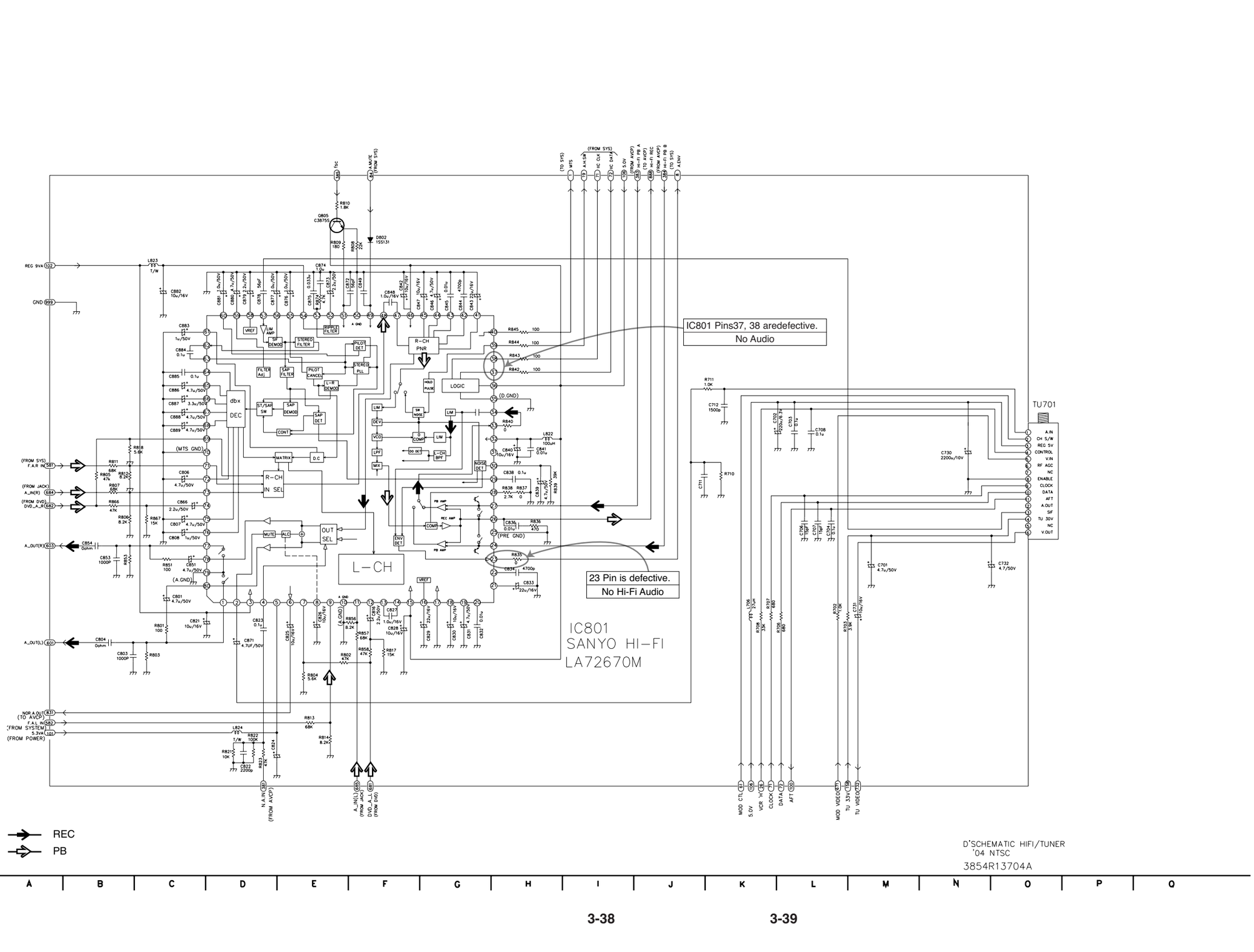


D'SCHEMATIC A/V JACK , SCART
'04 NTSC
3854R13705A

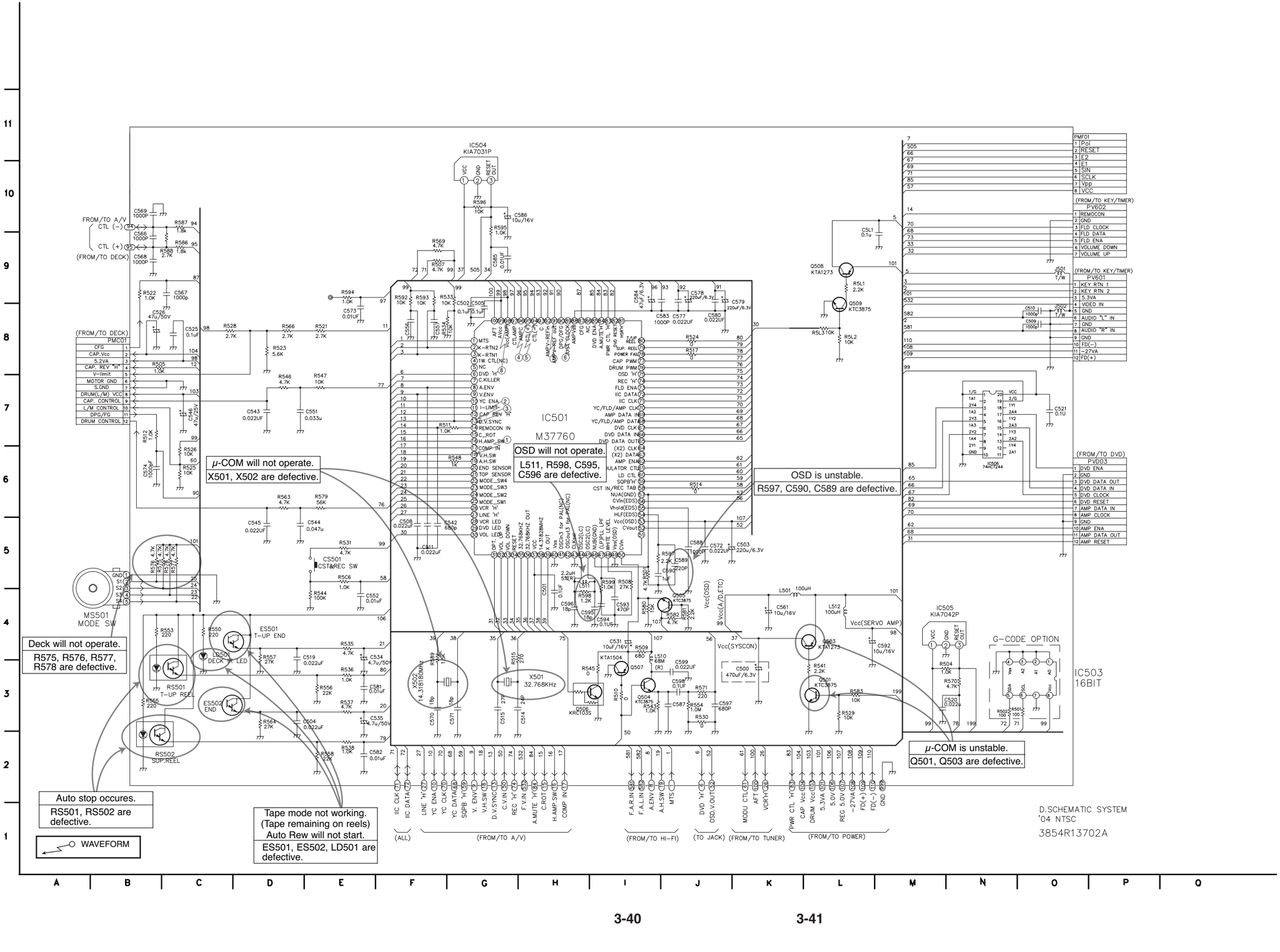
4. A/V CIRCUIT DIAGRAM



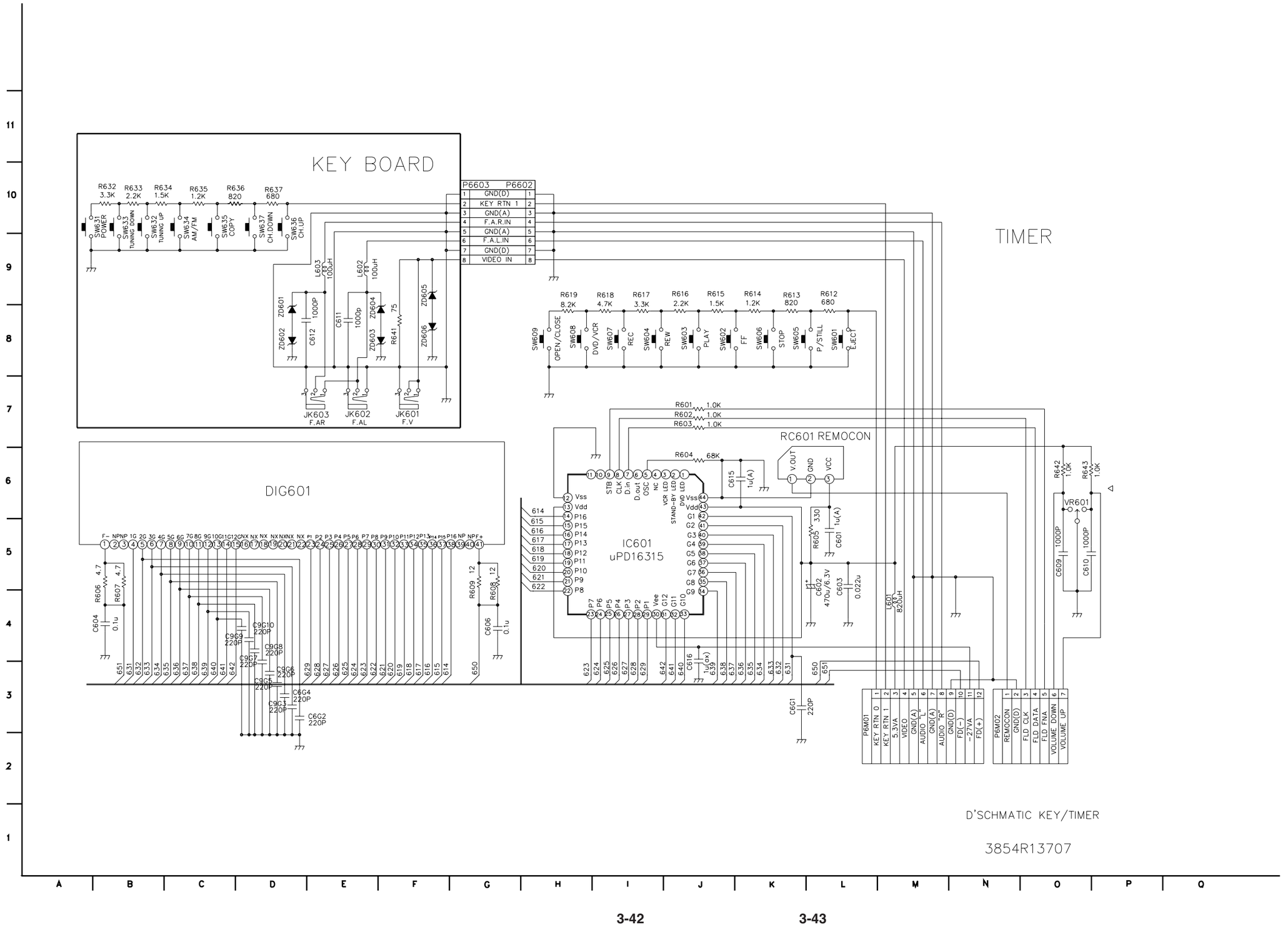
5. Hi-Fi CIRCUIT DIAGRAM



6. SYSTEM CIRCUIT DIAGRAM

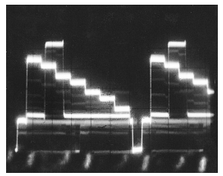


7. KEY CIRCUIT DIAGRAM

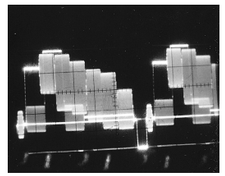


• WAVEFORMS

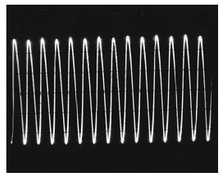
* IC301 Waveform

① 

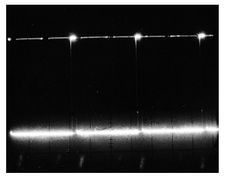
IC301 Pins 20, 21, 22
100mV/10msec DIV
VV/EE
20 Main DE Emphasis Filter
21 Main DE Emphasis out
22 Clamp in

② 

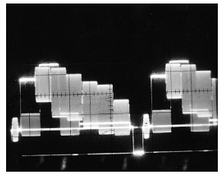
IC301 Pin 32
200mV/10msec DIV
EE
(VIDEO IN)

③ 

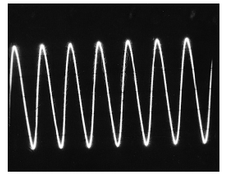
IC301 Pin 41
100mV/0.2msec DIV
REC/PB
(2fsc)

④ 

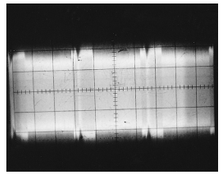
IC301 Pin 25
1.0V/20msec DIV
VV/EE
(C-SYNC OUT)

⑤ 

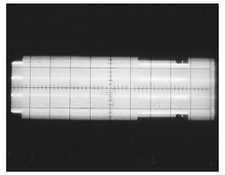
IC301 Pin 26
500mV/10msec DIV
EE
(VIDEO OUT)

⑥ 

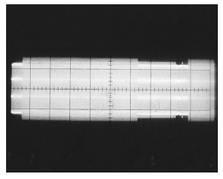
IC301 Pin 49
100mV/0.2msec DIV
PB/REC
(3.58MHz X-TAL IN)

⑦ 

IC301 Pin 14
100mV/5msec DIV
PB
(PB RF out)

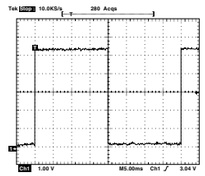
⑧ 

IC301 Pin 73
500mV/2msec DIV
SP REC
(REC RF)

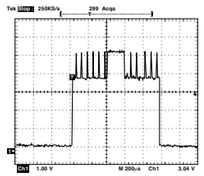
⑨ 

IC301 Pin 66
500mV/2msec DIV
EP REC
(REC RF)

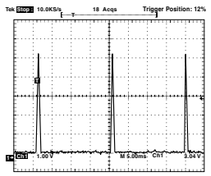
* IC501 Waveform

① 

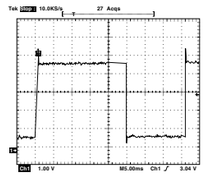
IC501 Pin 18
REC/PB

② 

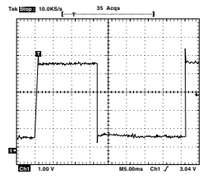
IC501 Pin 13
QUE/REV

③ 

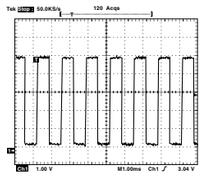
IC501 Pin 13
QUE/REV

④ 

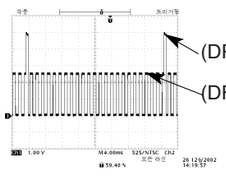
IC501 Pin 95
REC

⑤ 

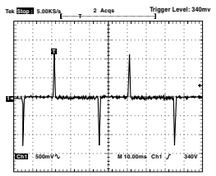
IC501 Pin 94
REC

⑥ 

IC501 Pin 87
REC/PB

⑦ 

IC501 Pin 90
REC/PB
(DPG/DFG)

⑧ 

IC501 Pin 97
PB
(CTL OUT)

• CIRCUIT VOLTAGE CHART

MODE / PIN NO.	EE	PLAY
IC301		
1	2.3	2.31
2	2.29	2.28
3	2.29	2.28
4	2.29	2.28
5	2.31	2.29
6	2.3	2.31
7	0	2.31
8	2.31	2.32
9	2.31	2.31
10	2.25	2.27
11	4.93	4.93
12	1	1
13	0.97	0.97
14	1.92	1.89
15	1.55	1.53
16	0	0
17	2.37	2.55
18	2.39	1.45
19	0	0
20	2.46	2.49
21	1.73	1.79
22	3.07	2.29
23	4.96	4.95
24	0	0
25	0.36	0.35
26	1.83	1.87
27	1.47	1.6
28	2.25	2.56
29	2.32	2.31
30	2.25	2.26
31	4.08	4.08
32	2.25	2.26
33	3.62	2.8
34	2.97	2.93
35	3.13	3.14
36	2.37	2.37
37	2.35	2.29
38	0	0
39	1.82	1.87
40	0	0
41	0.83	0.83
42	2.34	2.37
43	0	0
44	4.92	4.92
45	4.95	4.95
46	2.27	3.17
47	3.31	3.31
48	3.32	3.32
49	3.94	3.94
50	2.54	2.55
51	2.12	2.09
52	4.95	4.95
53	4.75	4.62
54	4.7	4.52

MODE / PIN NO.	EE	PLAY
55	0.68	0.93
56	0	0
57	0	2.56
58	0	1.61
59	0	2.9
60	4.91	0.94
61	2.92	1.94
62	0	0
63	3.96	3.98
64	1.76	1.72
65	1.84	1.85
66	1.84	1.86
67	1.84	1.86
68	4.93	4.93
69	0.18	0
70	0.15	0
71	0	0
72	1.82	0.71
73	1.82	0.71
74	1.82	0.71
75	0	0
76	2.3	2.3
77	4.96	4.96
78	2.3	2.3
79	0	0
80	2.3	2.3
IC302		
1	2.96	2.96
2	0	0
3	3.01	3
4	5.12	5.12
5	2.95	2.95
6	4.97	4.97
7	2.2	2.2
8	0	0
IC501		
1	0.97	0
2	5.17	5.17
3	5.17	5.16
4	0	0
5	0.5	0.54
6	0	0
7	0.4	0.42
8	0.19	4.06
9	0.29	3.91
10	0.68	0.99
11	0	3.42
12	0	0
13	0	0
14	4.78	4.78
15	0	2.57
16	0	0
17	0.68	0.43
18	2.56	2.57
19	2.57	2.57

MODE / PIN NO.	EE	PLAY
20	0	0
21	0.11	0.11
22	5.17	5.17
23	]5.17	5.17
24	5.17	5.17
25	0	0
26	5.13	5.13
27	5.13	5.17
28	5.13	5.13
29	0	0
30	0	0
31	0	0
32	0	0
33	0	0
34	5.15	5.15
35	1.52	1.51
36	1.43	1.44
37	5.15	5.15
38	2.19	2.18
39	2.28	2.27
40	0	0
41	0.51	0.55
42	0.26	0.55
43	0.26	0
44	2.35	2.34
45	2.41	2.41
46	0	0
47	1.29	0
48	0	0
49	0	0
50	1.88	1.99
51	0.53	0.57
52	1.88	1.98
53	4.96	4.95
54	2.03	2.03
55	2.6	1.92
56	1.96	2.05
57	0	0
58	0	0
59	0	0
60	2.57	2.58
61	0	4.28
62	0	0
63	0	0
64	0	0
65	0.97	0.86
66	2.38	0
67	5.07	5.07
68	4.7	4.45
69	5.02	4.97
70	4.75	4.61
71	5.17	5.17
72	5.17	5.17
73	0	0
74	0	0

MODE / PIN NO.	EE	PLAY
75	0	0
76	0	1.79
77	0	2.72
78	0	4.76
79	0	0
80	0	0
81	0	0
82	4.94	4.94
83	5.03	4.98
84	0	0
85	2.69	2.67
86	0.58	0.68
87	0.17	2.36
88	0	0
89	0.54	0
90	0.1	1.36
91	2.53	2.54
92	2.54	2.53
93	0.21	0
94	2.5	2.49
95	2.5	2.49
96	2.52	2.52
97	2.52	2.52
98	5.08	5.08
99	5.17	5.17
100	2.64	1.95
IC504		
1	5.19	5.19
2	0	0
3	5.14	5.14
IC505		
1	5.19	5.19
2	0	0
3	4.7	4.7
IC601		
1	1.93	1.93
2	2.01	2.01
3	5.05	5.05
4	1.7	1.7
5	0	0
6	5.05	5.05
IC602		
1	2.51	2
2	0	0
3	2.27	2.35
4	0	0
5	0	0
6	5.06	5.06
7	2.53	2.04
8	0	0
IC801		
1	0	0
2	2.56	2.54
3	9.21	9.18
4	2.48	2.48

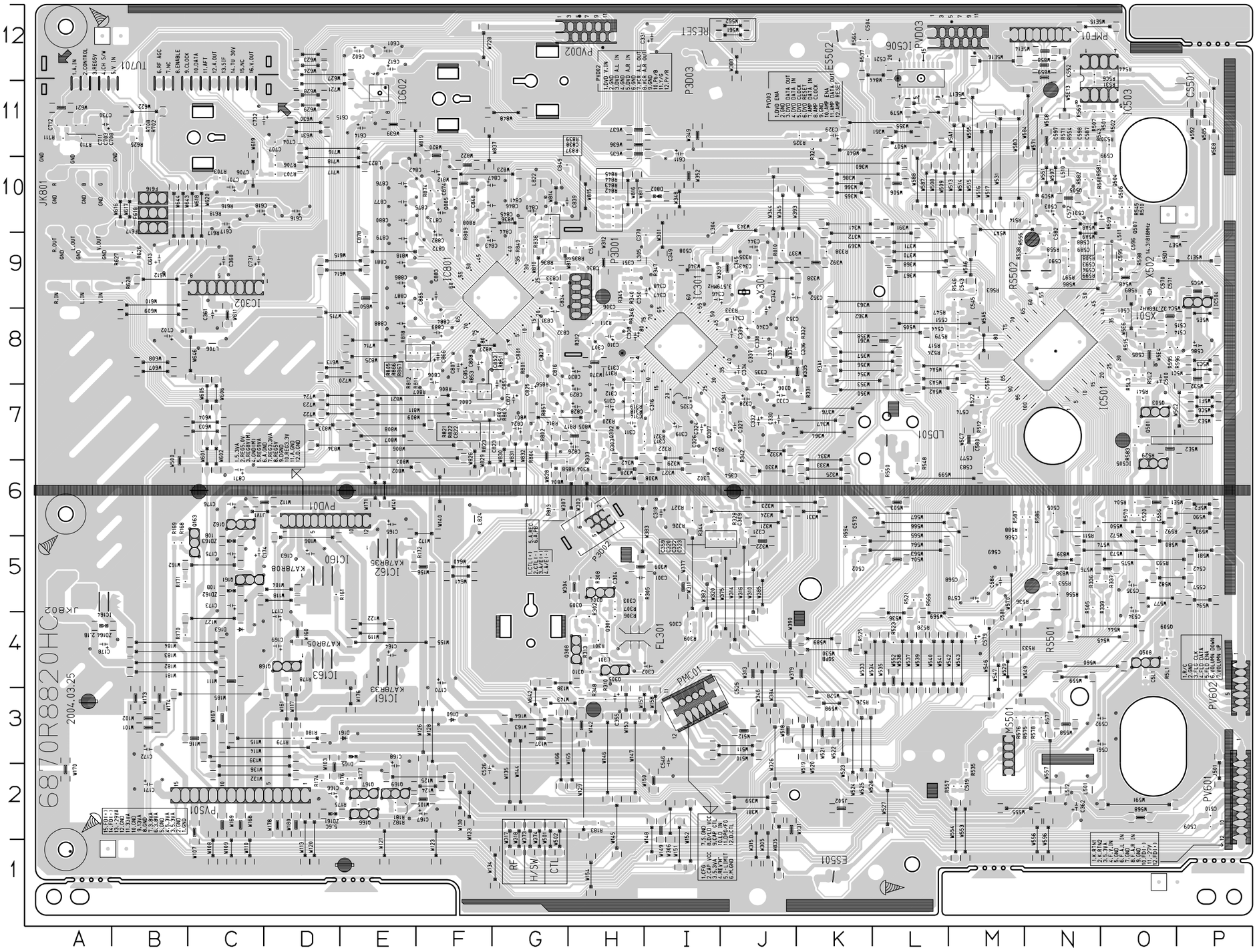
MODE / PIN NO.	EE	PLAY
5	5.19	5.19
6	1.91	2.07
7	0	0
8	0.29	1.31
9	0	0
10	0	0
11	0	0
12	2.5	2.5
13	1.91	2.44
14	2.49	2.49
15	5.06	5.05
16	2.51	2.51
17	0	0
18	0	0.86
19	2.51	2.44
20	2.52	2.45
21	2.52	2.43
22	2.51	2.42
23	0.19	3.66
24	2.25	2.3
25	0	0
26	2.24	2.3
27	2.25	2.3
28	0	0
29	2.48	0.11
30	0	1.34
31	2.51	3.79
32	5.02	5.01
33	2.64	2.65
34	2.64	2.64
35	0	0
36	5.06	5.05
37	5.17	5.05
38	5.17	5.17
39	0	2.57
40	0.19	0
41	2.52	2.45
42	2.51	2.43
43	2.52	2.45
44	2.52	2.45
45	0	0.25
46	5.06	5.05
47	2.49	2.49
48	1.9	2.42
49	0	0
50	0	0
51	2.05	2.06
52	1.22	0
53	3.86	0.25
54	9.2	9.19
55	6.26	0.28
56	1.96	0.29
57	2.2	2.15
58	4.56	0
59	2.52	2.35

MODE / PIN NO.	EE	PLAY
60	3.86	0.23
61	3.15	0.24
62	4.02	0
63	3.83	0
64	2.45	0
65	3.87	0.32
66	4.09	0.32
67	3.88	0.31
68	3.94	0.31
69	0	0
70	0	0
71	0	0
72	3.86	0.31
73	0	0
74	2.5	2.5
75	3.87	0.4
76	3.17	0.22
77	0	0
78	4.42	4.3
79	0	0
80	4.4	4.3

Location No.	Base		Emitter		Collector	
	EE	PB	EE	PB	EE	PB
Q301	4.26	4.26	4.97	4.96	4.907	4.91
Q302	0.758	1.74	0	0	0	0
Q303	0.734	0.72	0	0	0	0
Q304	0	0	0	0	0	0
Q305	4.92	4.92	4.94	4.93	0	0
Q306	1.828	1.86	2.45	2.5	0	0
Q307	1.843	2.05	2.51	2.62	0	0
Q308	5.19	5.19	4.87	4.91	4.93	4.92
Q309	0	0	0	0	4.91	4.97
Q501	0.68	0.68	0	0	0	0
Q503	5.17	5.17	4.48	4.48	5.15	5.15
Q504	2.82	2.94	2.18	2.27	4.95	4.95
Q505	1.58	1.58	1.03	2.24	4.96	4.96
Q506	5.07	0	0	0	0	3.29
Q507	2.8	2.6	0	3.23	0	0
Q805	2.56	2.56	2.08	2.08	5.06	5.05

PRINTED CIRCUIT DIAGRAMS

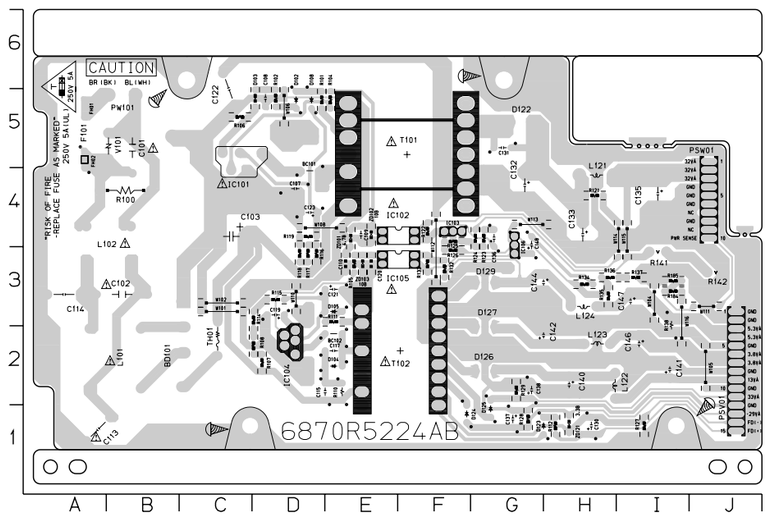
1. MAIN P.C.BOARD



LOCATION GUIDE

C163	D5	C602	E12	IC161	E4
C164	E4	C611	I11	IC162	E5
C165	E6	C612	E12	IC163	D4
C166	D2	C613	B9	IC164	A5
C167	F2	C614	E11	IC302	C9
C168	E2	C616	D10	IC503	N12
C169	D4	C617	C10	IC504	P9
C170	F4	C618	C10	IC505	O6
C171	B2	C701	C10	J501	P2
C172	B3	C702	B8	J502	K2
C173	C5	C730	A11	JK801	A10
C174	C5	C731	C9	JK802	A5
C175	C5	C732	D11	L301	H4
C176	C6	C801	G8	L302	I6
C177	D4	C806	F8	L303	J8
C178	A4	C807	F8	L304	I9
C301	H5	C808	F8	L305	I9
C302	I4	C816	G7	L501	N2
C308	H8	C821	G7	L510	N10
C310	H8	C824	G7	L511	O9
C311	H7	C825	G7	L512	N2
C312	H7	C826	H7	L706	C8
C315	H7	C828	H7	L822	G10
C318	I6	C829	H7	L823	E10
C319	I7	C830	H8	L824	F6
C324	I7	C831	G8	LD501	L7
C325	I7	C833	G9	MS501	M3
C327	J7	C839	G10	P3D01	H8
C328	J7	C840	G10	P3D02	H6
C329	K11	C842	F10	P3D03	I12
C330	J7	C843	F9	PMC01	I3
C331	I12	C846	F10	PMF01	N12
C332	J7	C847	F10	PV601	P3
C333	J7	C851	G7	PV602	P4
C334	J8	C866	F8	PVD01	D6
C335	J7	C871	C6	PVD02	G12
C339	J8	C873	F10	PVD03	L12
C340	J8	C876	E10	PVS01	D2
C342	J8	C877	E10	Q161	C5
C344	J9	C879	E9	Q162	C6
C346	I9	C880	E10	Q163	C5
C350	I9	C881	E9	Q166	E2
C352	K9	C882	F9	Q167	E2
C355	H3	C883	F9	Q168	D4
C360	C9	C886	E9	Q169	E2
C361	C8	C887	E9	Q304	H5
C362	N2	C888	E8	Q305	H4
C500	O8	C889	F8	Q308	H4
C503	N10	CS501	O11	Q503	O7
C526	F2	D160	F3	Q508	O4
C531	N10	D161	E3	RS501	N5
C534	O5	D163	C4	RS502	N9
C535	O5	D165	E3	TU701	A11
C546	I3	D802	I10	X301	J9
C561	O3	ES501	J1	X501	O8
C578	M5	ES502	L12	X502	O9
C579	M4	F616	B10	ZD161	D2
C584	M5	F617	B10	ZD162	C5
C586	P8	F618	B10	ZD163	C5
C592	O3	FL301	H4	ZD164	A4
C601	E12	IC160	D5		

2. POWER P.C.BOARD

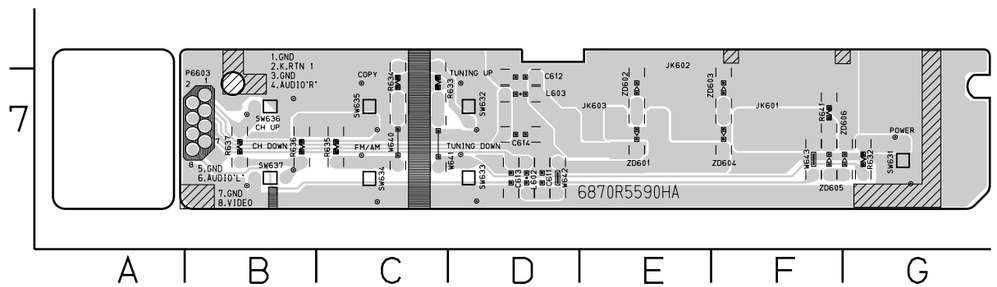


NOTES) ⚠ Warning
Parts that are shaded are critical With respect to risk of fire or electricial shock.

LOCATION GUIDE

BC101	D4	D104	E2	R111	E3
BC102	E2	D105	E3	R112	H1
BD101	B2	D108	D5	R114	D3
C101	B5	D122	G5	R115	D3
C102	B3	D123	H1	R116	D3
C103	C4	D124	F1	R117	D3
C107	D4	D125	G1	R118	D3
C108	D5	D126	G2	R119	D4
C109	E4	D127	G2	R121	H4
C110	E3	D129	G3	R122	F4
C113	A1	FH01	A5	R123	G4
C114	A3	FH02	A5	R124	G4
C115	E2	IC101	C5	R125	F4
C117	E2	IC102	F4	R126	F3
C119	D3	IC103	F4	R127	I1
C120	E3	IC104	D2	R128	G1
C121	E3	IC105	F3	R129	G2
C122	C5	IC106	G4	R132	F3
C123	D4	L101	B2	R133	F3
C130	H1	L102	B4	R134	H3
C131	G5	L121	H4	R135	H3
C132	G4	L122	H2	R136	H3
C133	H4	L123	H2	R137	I3
C135	I4	L124	H3	R138	I3
C136	G4	PSV01	J3	R141	I3
C137	G1	PSW01	J5	R142	J3
C138	G2	PW101	B5	R184	I3
C140	H2	R100	B4	R185	I3
C141	I2	R101	D5	T101	F5
C142	H2	R102	D5	T102	F2
C144	H3	R104	E5	TH01	C2
C146	I2	R105	E3	V101	B5
C147	I3	R106	C5	ZD101	E4
C148	G4	R107	D2	ZD102	E4
D102	D5	R108	D2	ZD103	E3
D103	D5	R110	E2	ZD121	H1

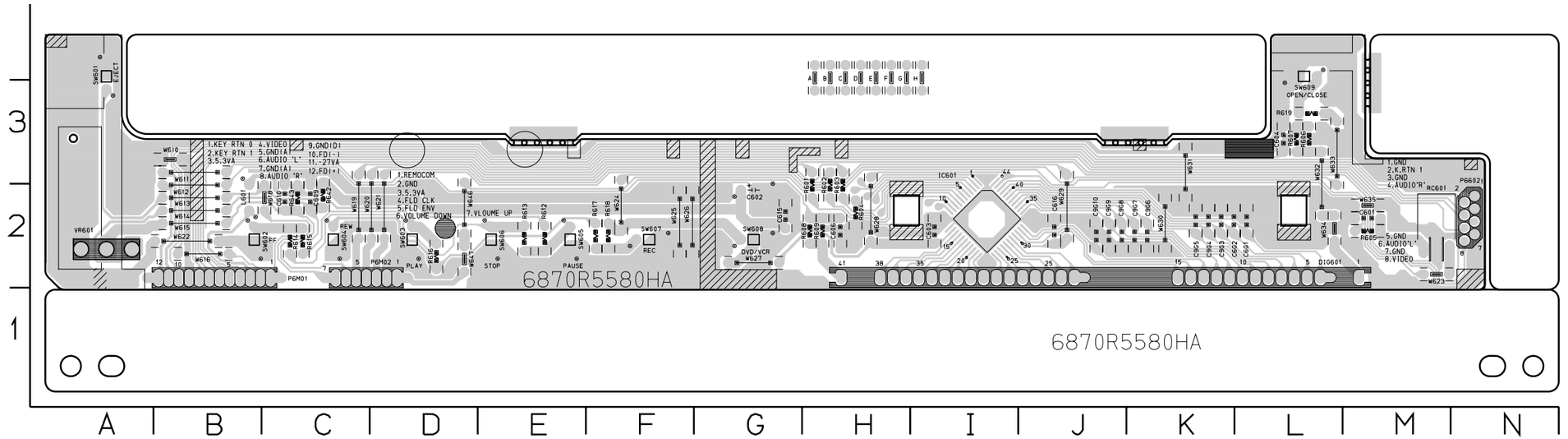
3. KEY 1(LEFT) P.C.BOARD



LOCATION GUIDE

C611	D7	R637	B7
C612	D7	R641	F7
C613	D7	SW631	G7
C614	D7	SW632	D7
JK601	F7	SW633	D7
JK602	E7	SW634	C7
JK603	E7	SW635	C7
L602	D7	SW636	B7
L603	D7	SW637	B7
P6603	B7	ZD601	E7
R632	G7	ZD602	E7
R633	C7	ZD603	F7
R634	C7	ZD604	F7
R635	C7	ZD605	F7
R636	B7	ZD606	G7

4. KEY 2(RIGHT) P.C.BOARD

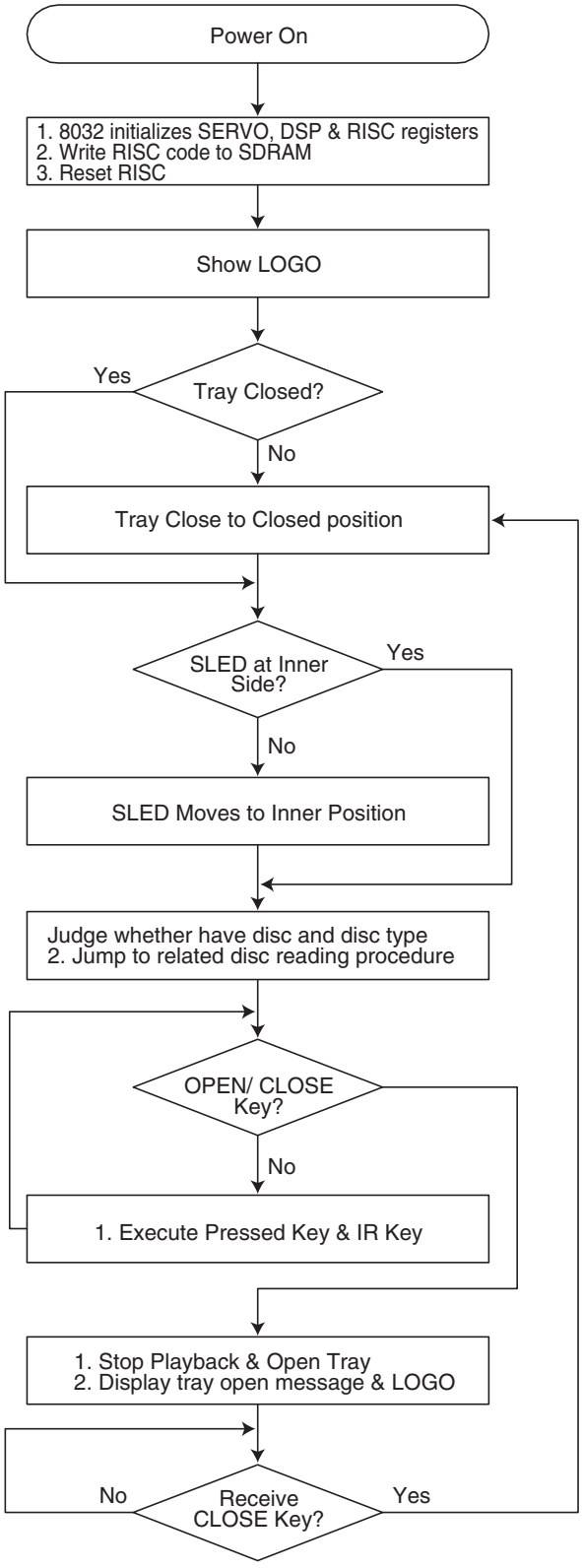


LOCATION GUIDE

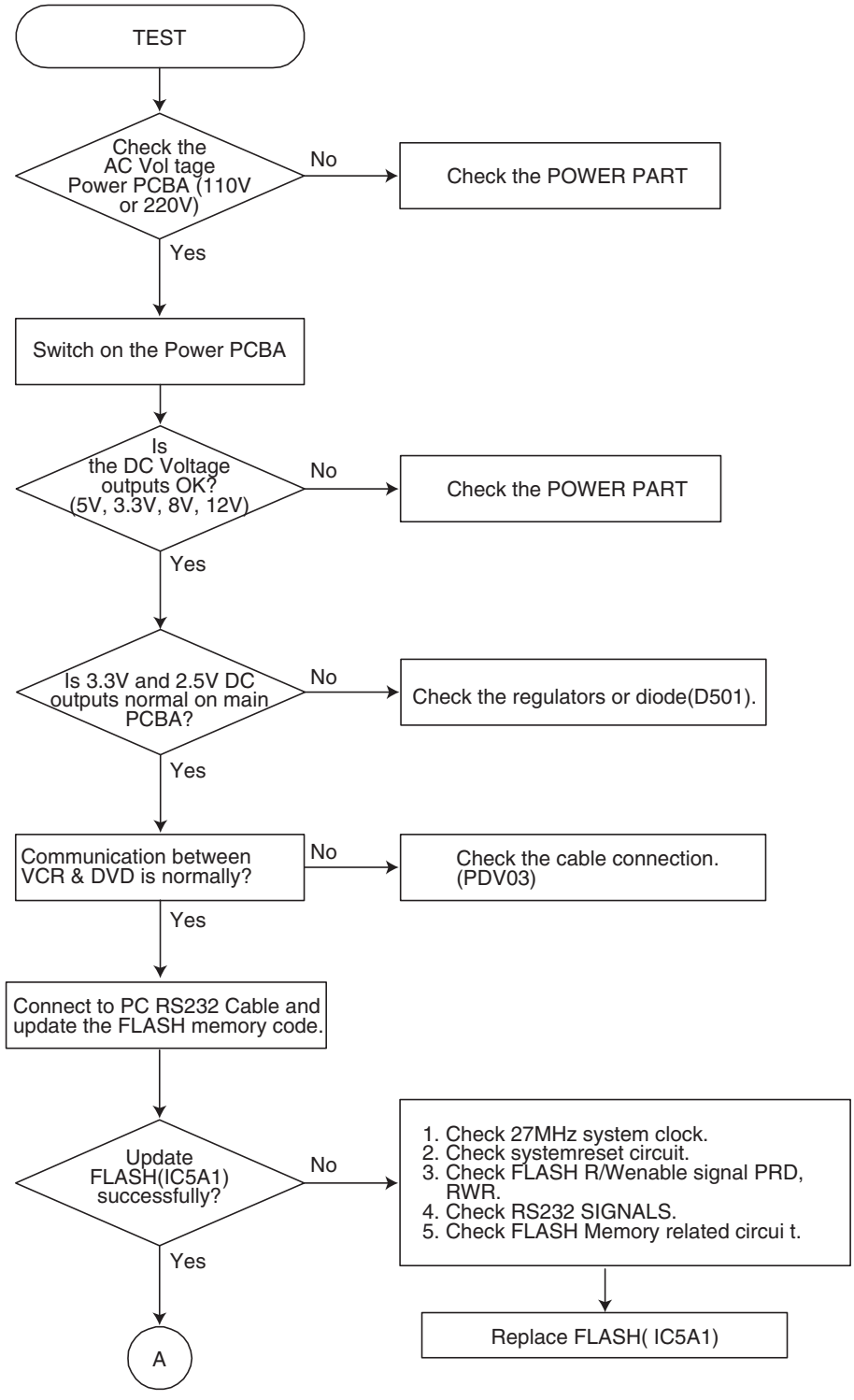
C601	M2	R604	H2
C602	G2	R605	M2
C603	I2	R606	L3
C604	L3	R607	L3
C606	H2	R608	H2
C609	C2	R609	H2
C610	C2	R612	E2
C615	G2	R613	E2
C616	J2	R614	C2
C6G1	L2	R615	C2
C6G2	K2	R616	D2
C9G10	J2	R617	F2
C9G3	K2	R618	F2
C9G4	K2	R619	L3
C9G5	K2	R642	C2
C9G6	K2	R643	C2
C9G7	K2	RC601	M2
C9G8	J2	SW601	A4
C9G9	J2	SW602	B2
DIG601	M2	SW603	D2
L601	B2	SW604	C2
P6602	N2	SW605	E2
P6M01	C2	SW606	E2
P6M02	D2	SW607	F2
R601	H2	SW608	G2
R602	H2	SW609	L4
R603	H2	VR601	A2

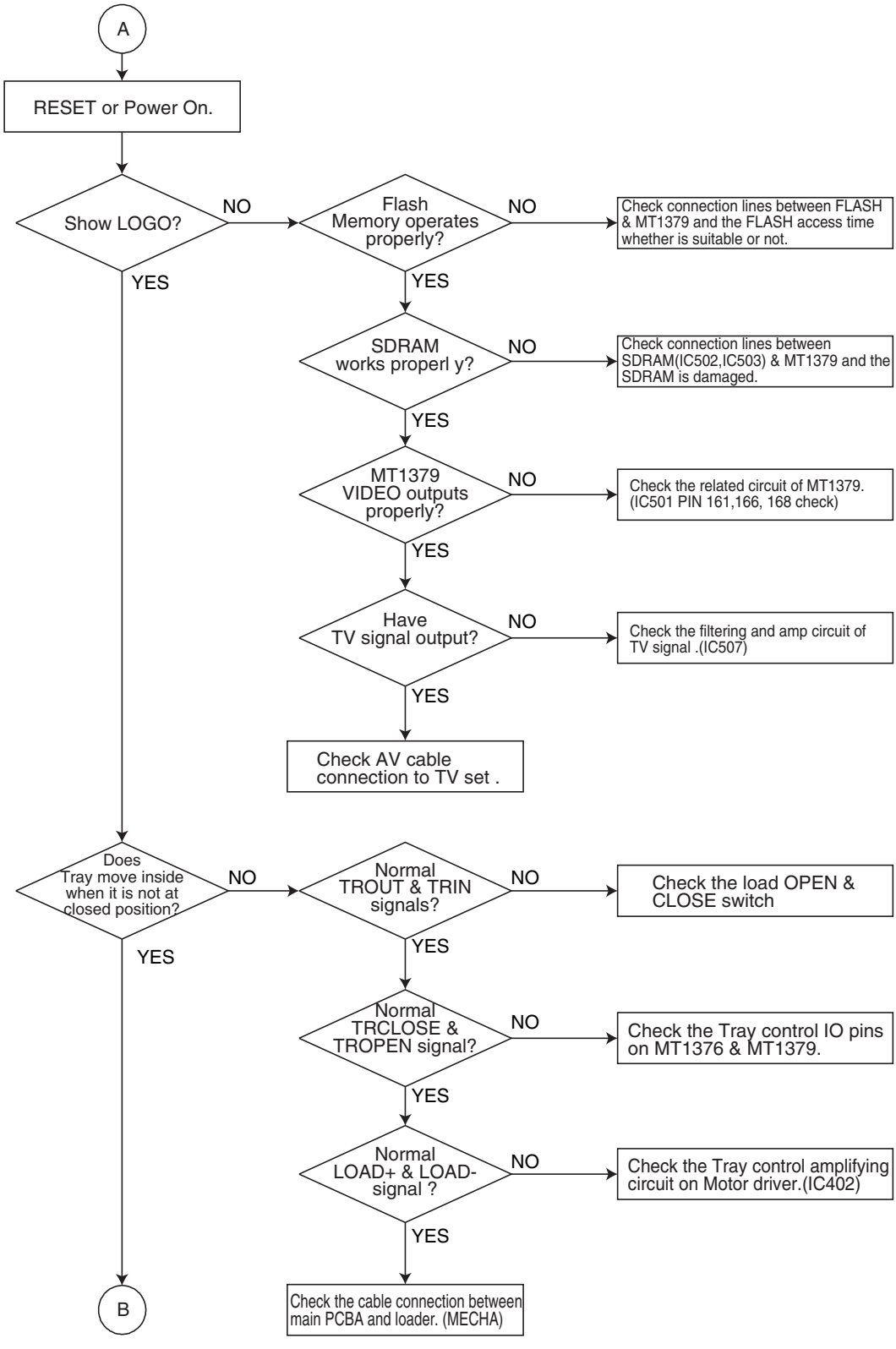
DVD & AMP PART
ELECTRICAL TROUBLESHOOTING GUIDE

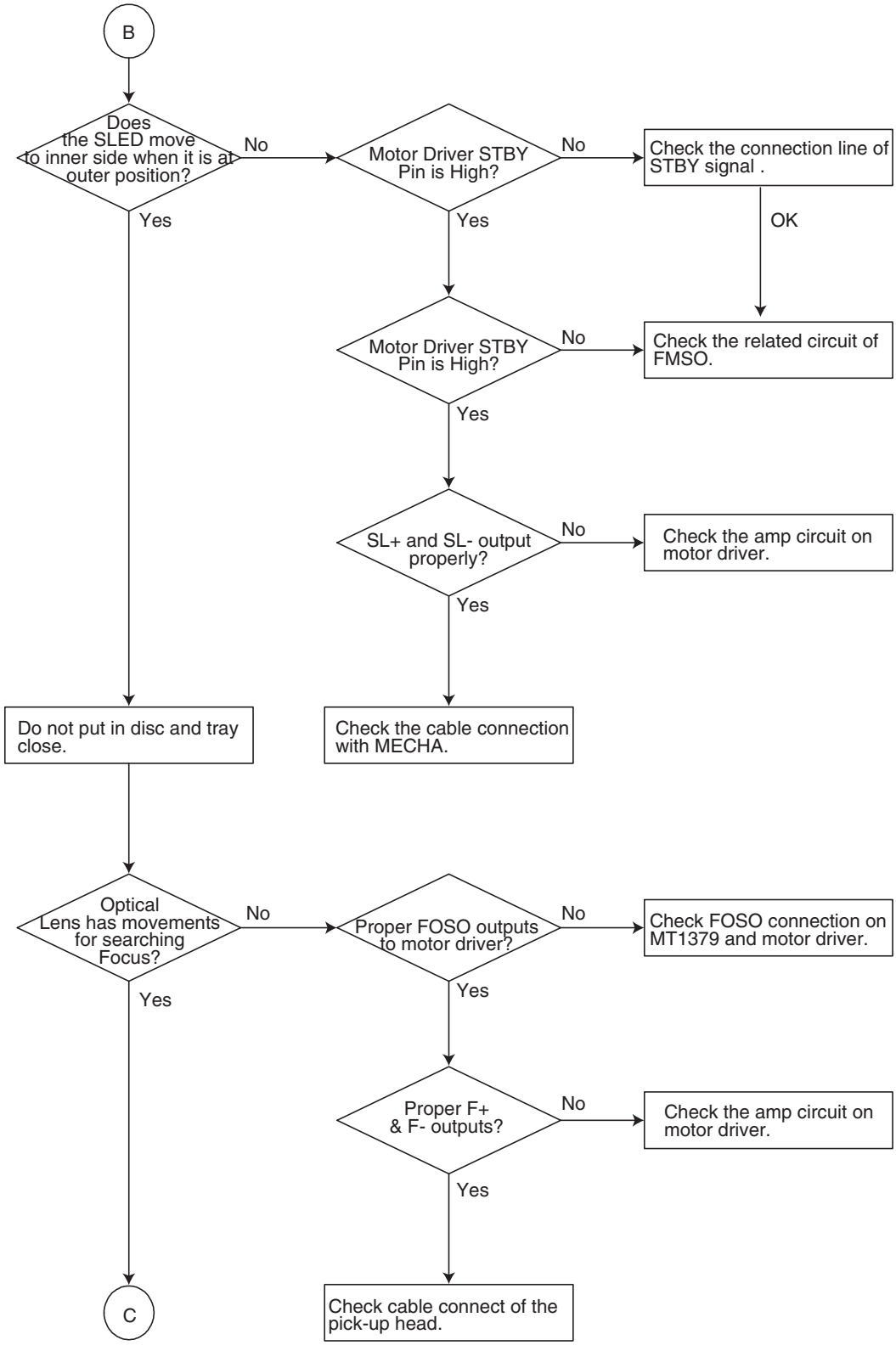
1. System operation flow

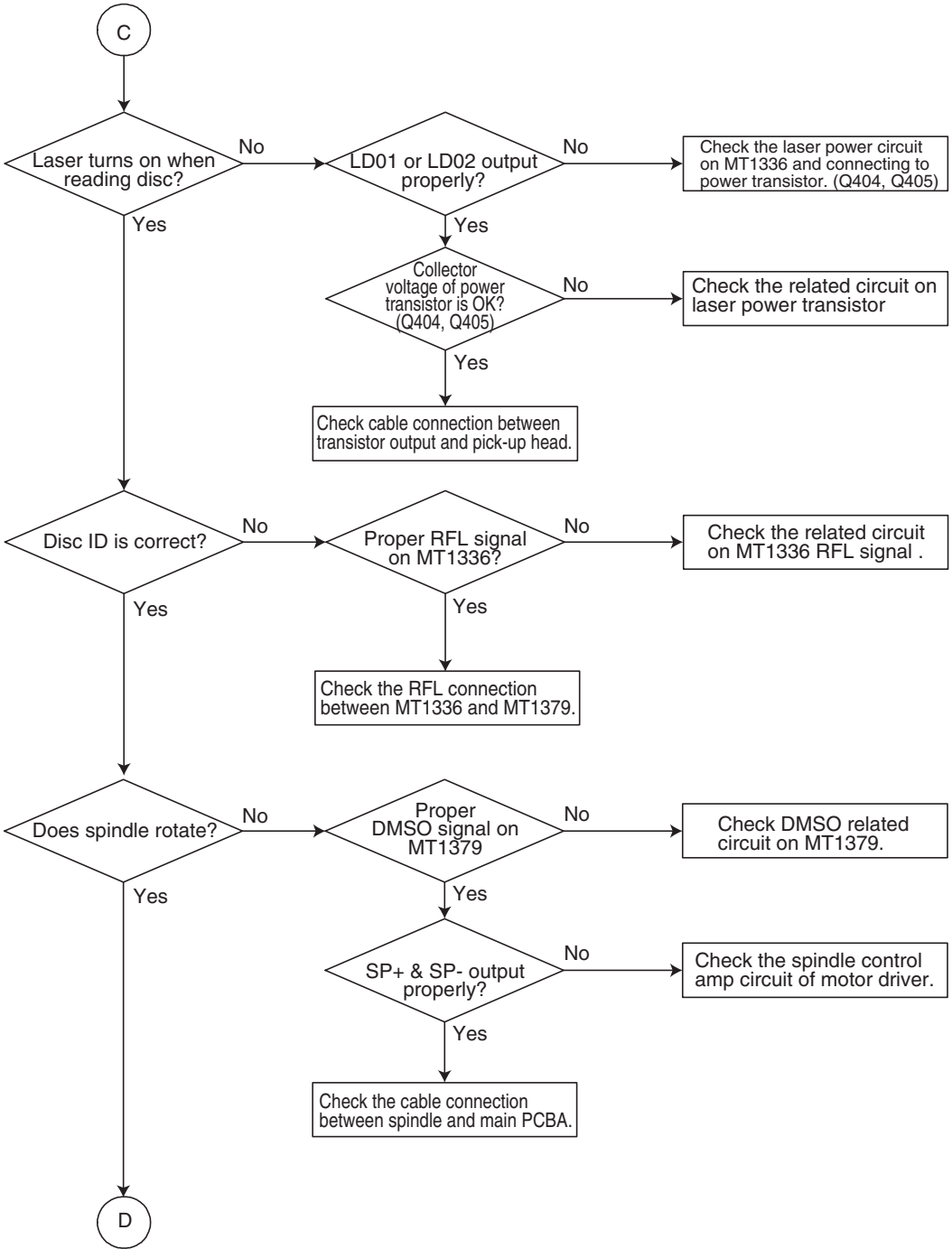


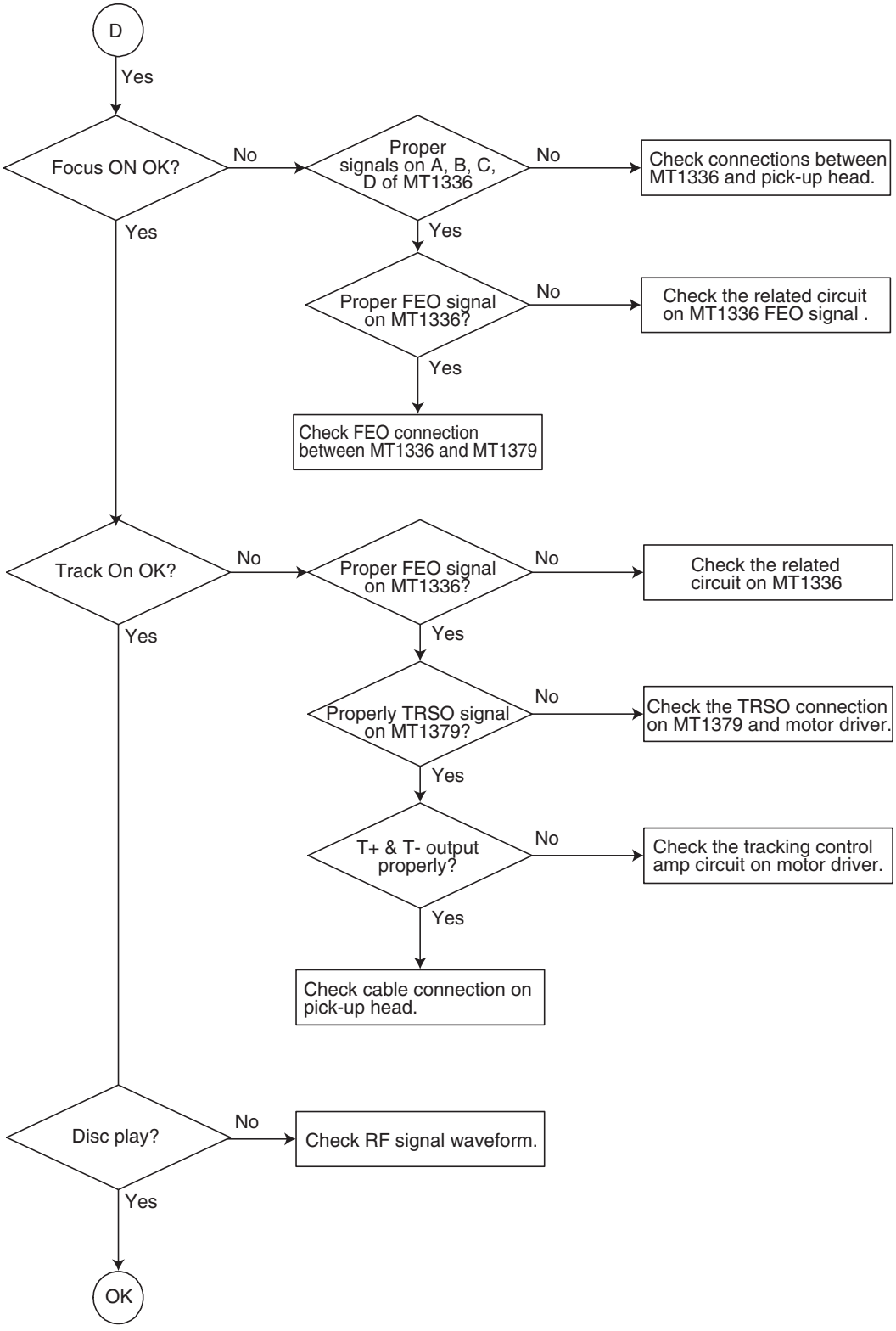
2. Test & debug flow

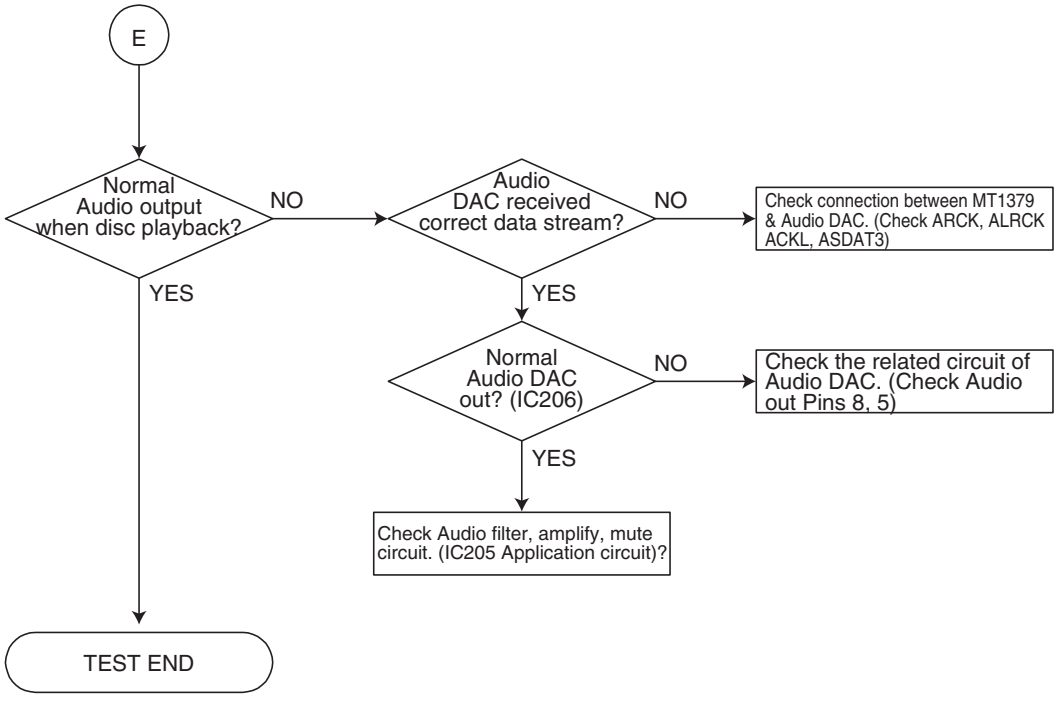

TEST
Check the AC Vol tage Power PCBA (110V or 220V)
No
Check the POWER PART
Yes
Switch on the Power PCBA
Is the DC Voltage outputs OK? (5V, 3.3V, 8V, 12V)
No
Check the POWER PART
Yes
Is 3.3V and 2.5V DC outputs normal on main PCBA?
No
Check the regulators or diode(D501).
Yes
Communication between VCR & DVD is normally?
No
Check the cable connection. (PDV03)
Yes
Connect to PC RS232 Cable and update the FLASH memory code.
Update FLASH(IC5A1) successfully?
No
1. Check 27MHz system clock.
2. Check systemreset circuit.
3. Check FLASH R/Wenable signal PRD, RWR.
4. Check RS232 SIGNALS.
5. Check FLASH Memory related circui t.
Replace FLASH(IC5A1)
Yes
A


A
RESET or Power On.
Show LOGO?
NO
YES
Flash Memory operates properly?
NO
Check connection lines between FLASH & MT1379 and the FLASH access time whether is suitable or not.
YES
SDRAM works properl y?
NO
Check connection lines between SDRAM(IC502,IC503) & MT1379 and the SDRAM is damaged.
YES
MT1379 VIDEO outputs properly?
NO
Check the related circuit of MT1379. (IC501 PIN 161,166, 168 check)
YES
Have TV signal output?
NO
Check the filtering and amp circuit of TV signal .(IC507)
YES
Check AV cable connection to TV set .
Does Tray move inside when it is not at closed position?
NO
YES
Normal TROUT & TRIN signals?
NO
Check the load OPEN & CLOSE switch
YES
Normal TRCLOSE & TROPEN signal?
NO
Check the Tray control IO pins on MT1376 & MT1379.
YES
Normal LOAD+ & LOAD- signal ?
NO
Check the Tray control amplifying circuit on Motor driver.(IC402)
YES
Check the cable connection between main PCBA and loader. (MECHA)
B

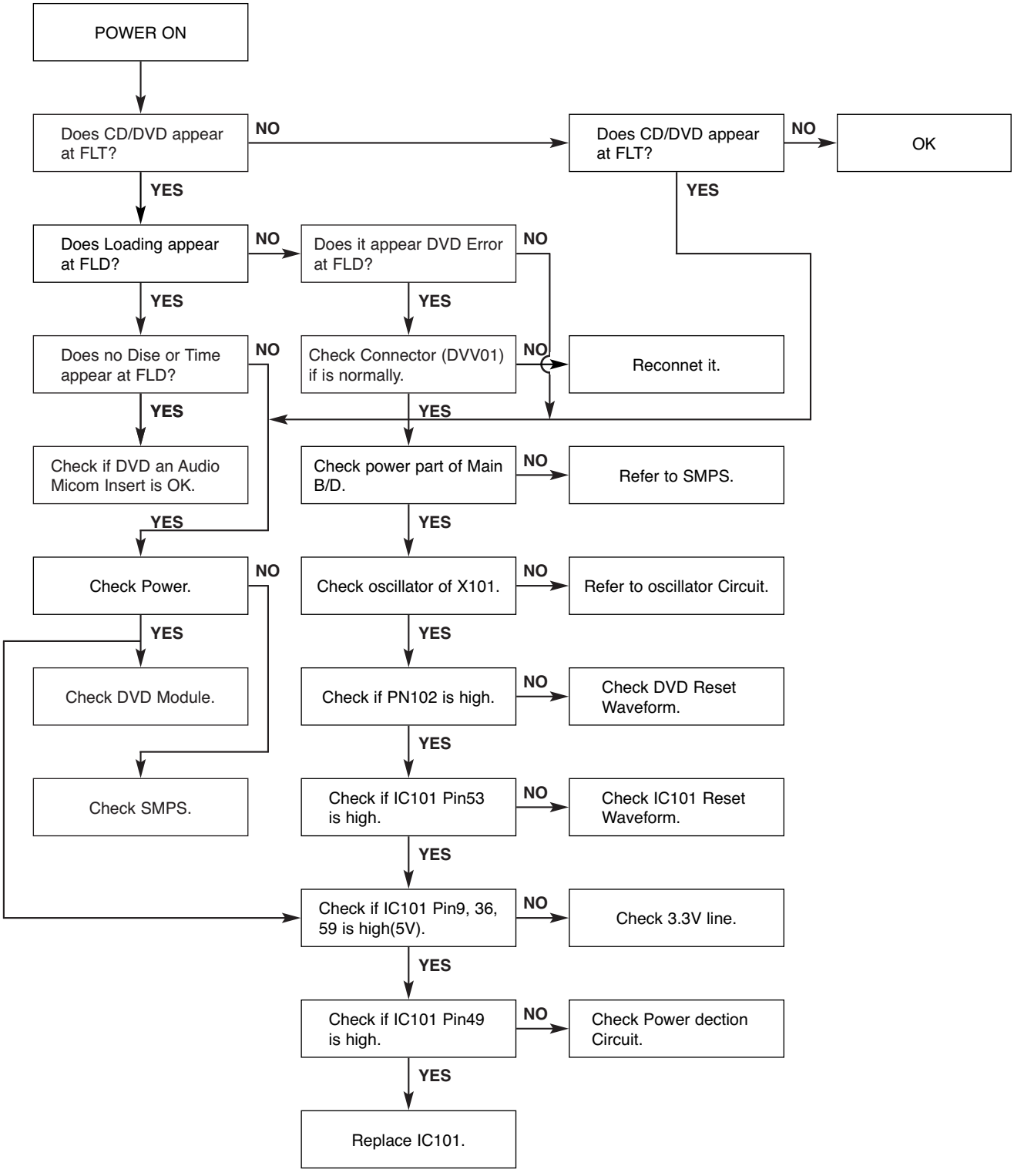

B
Does the SLED move to inner side when it is at outer position?
No
Yes
Motor Driver STBY Pin is High?
No
Yes
Check the connection line of STBY signal .
OK
Motor Driver STBY Pin is High?
No
Yes
Check the related circuit of FMSO.
SL+ and SL- output properly?
No
Yes
Check the amp circuit on motor driver.
Do not put in disc and tray close.
Check the cable connection with MECHA.
Optical Lens has movements for searching Focus?
No
Yes
Proper FOSO outputs to motor driver?
No
Yes
Check FOSO connection on MT1379 and motor driver.
Proper F+ & F- outputs?
No
Yes
Check the amp circuit on motor driver.
C
Check cable connect of the pick-up head.


C
Laser turns on when reading disc?
No
LD01 or LD02 output properly?
No
Check the laser power circuit on MT1336 and connecting to power transistor. (Q404, Q405)
Yes
Yes
Collector voltage of power transistor is OK? (Q404, Q405)
No
Check the related circuit on laser power transistor
Yes
Check cable connection between transistor output and pick-up head.
Disc ID is correct?
No
Proper RFL signal on MT1336?
No
Check the related circuit on MT1336 RFL signal .
Yes
Yes
Check the RFL connection between MT1336 and MT1379.
Does spindle rotate?
No
Proper DMSO signal on MT1379
No
Check DMSO related circuit on MT1379.
Yes
Yes
SP+ & SP- output properly?
No
Check the spindle control amp circuit of motor driver.
Yes
Check the cable connection between spindle and main PCBA.
D


D
Yes
Focus ON OK?
No
Proper signals on A, B, C, D of MT1336
No
Check connections between MT1336 and pick-up head.
Yes
Yes
Proper FEO signal on MT1336?
No
Check the related circuit on MT1336 FEO signal .
Yes
Check FEO connection between MT1336 and MT1379
Track On OK?
No
Proper FEO signal on MT1336?
No
Check the related circuit on MT1336
Yes
Yes
Properly TRSO signal on MT1379?
No
Check the TRSO connection on MT1379 and motor driver.
Yes
T+ & T- output properly?
No
Check the tracking control amp circuit on motor driver.
Yes
Check cable connection on pick-up head.
Disc play?
No
Check RF signal waveform.
Yes
OK


E
Normal Audio output when disc playback?
NO
Audio DAC received correct data stream?
NO
Check connection between MT1379 & Audio DAC. (Check ARCK, ALRCK ACKL, ASDAT3)
YES
YES
Normal Audio DAC out? (IC206)
NO
Check the related circuit of Audio DAC. (Check Audio out Pins 8, 5)
YES
Check Audio filter, amplify, mute circuit. (IC205 Application circuit)?
TEST END

3. AUDIO μ-COM Circuit(DVD & AMP)



DETAILS AND WAVEFORMS ON SYSTEM TEST AND DEBUGGING

1. SYSTEM 27MHz CLOCK,RESET,FLASH R/W SIGNAL

1) MT1379 main clock is at 27MHz(X501)

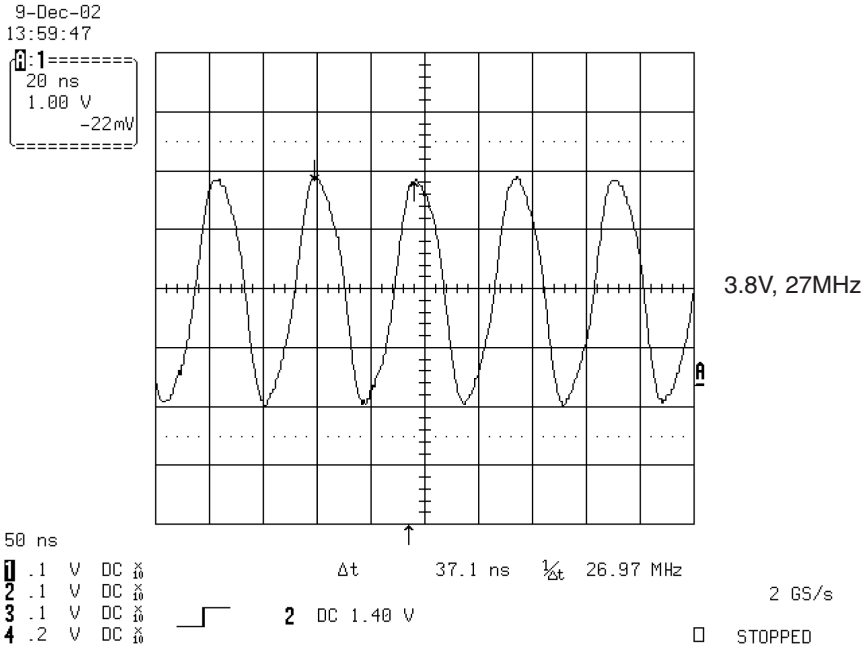


FIG 1-1

2) MT1379 & MT1336 reset is high active.

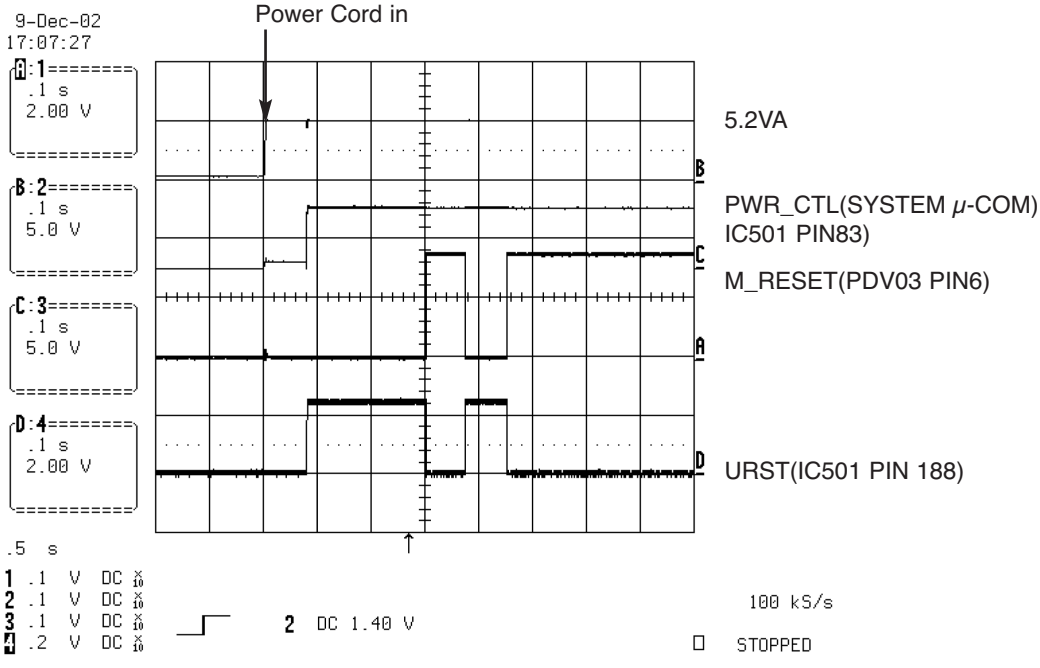


FIG 1-2

3) RS232 waveform during procedure(Downloading)

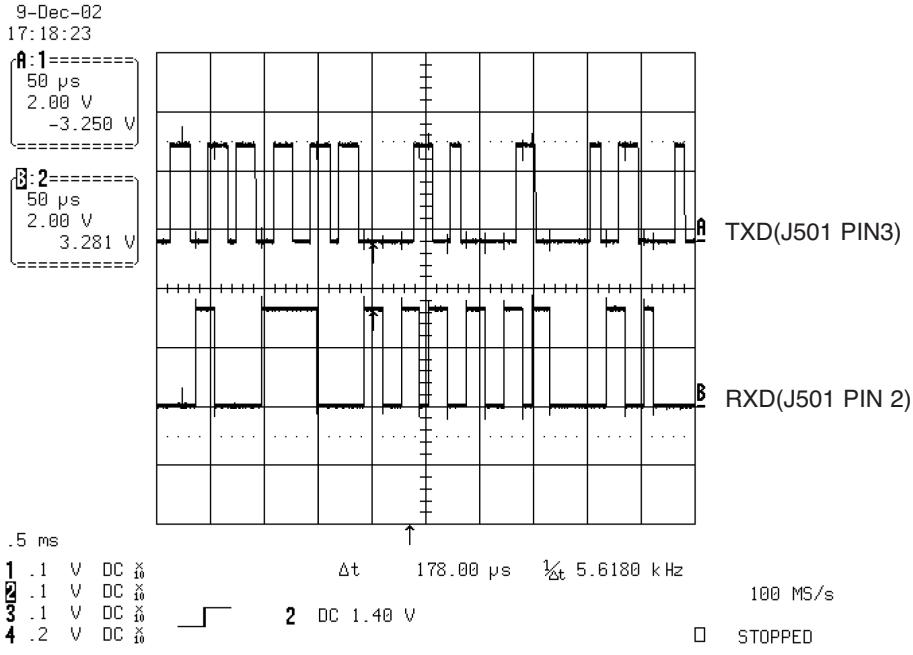


FIG 1-3

4) Flash R/W enable signal during download(Downloading)

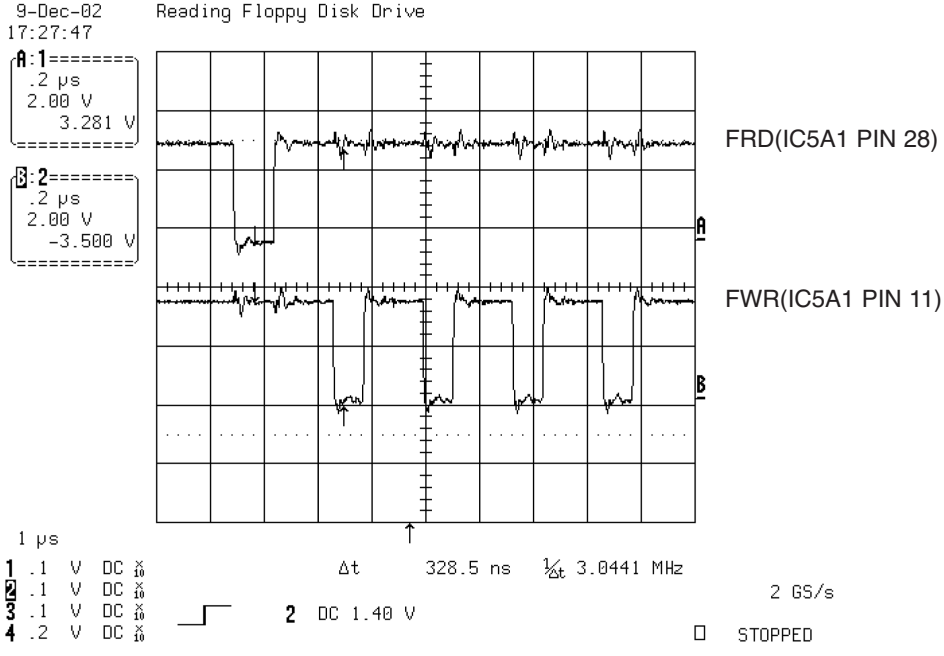


FIG 1-4

2. SDRAM CLOCK

1) MT1379 main clock is at 27MHz(X501)

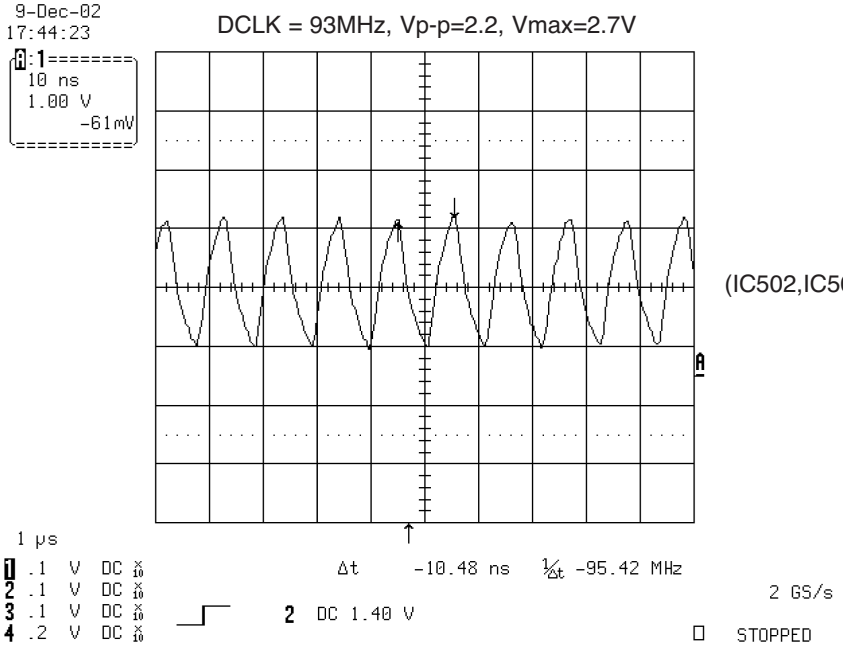


FIG 2-1

3. TRAY OPEN/CLOSE SIGNAL

1) Tray open/close waveform

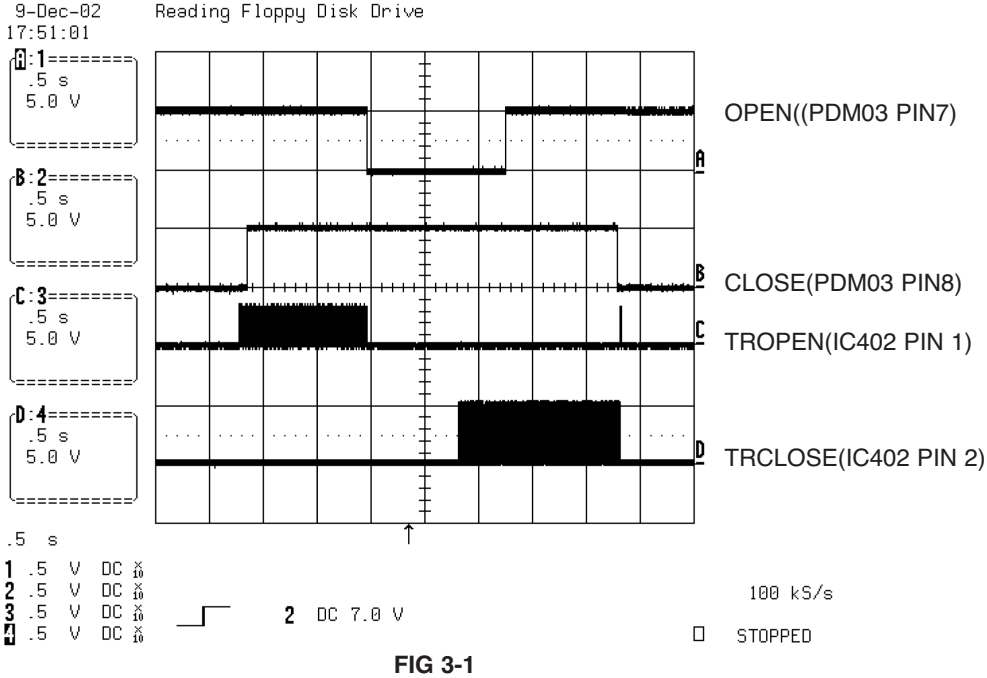


FIG 3-1

2) Tray close waveform

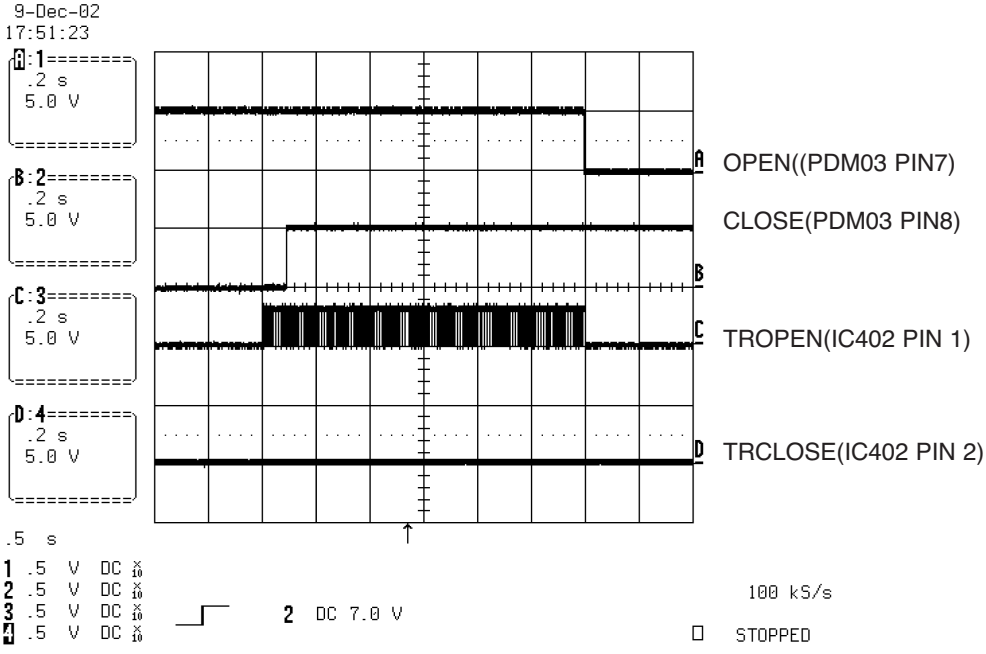


FIG 3-2

3) Tray open waveform

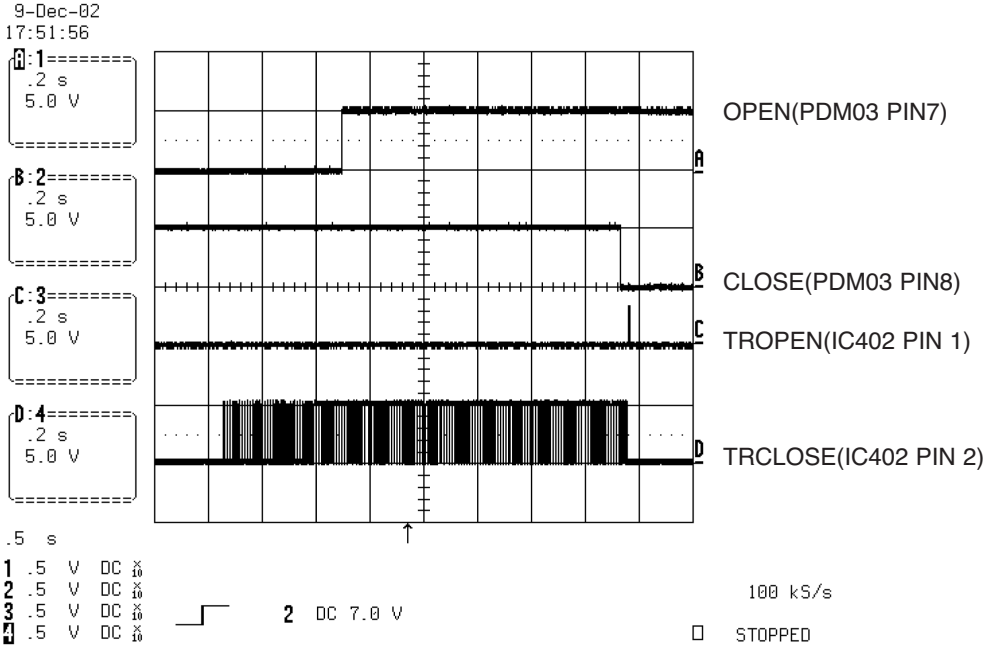


FIG 3-3

4. SLED CONTROL RELATED SIGNAL (NO DISC CONDITION)

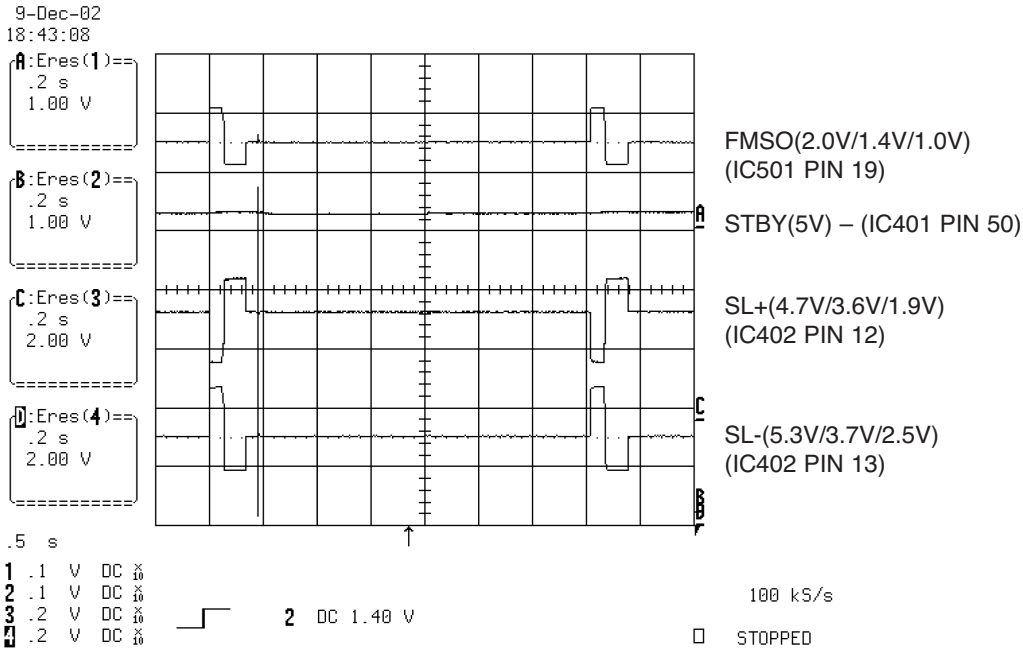


FIG 4-1

5. LENS CONTROL RELATED SIGNAL(NO DISC CONDITION)

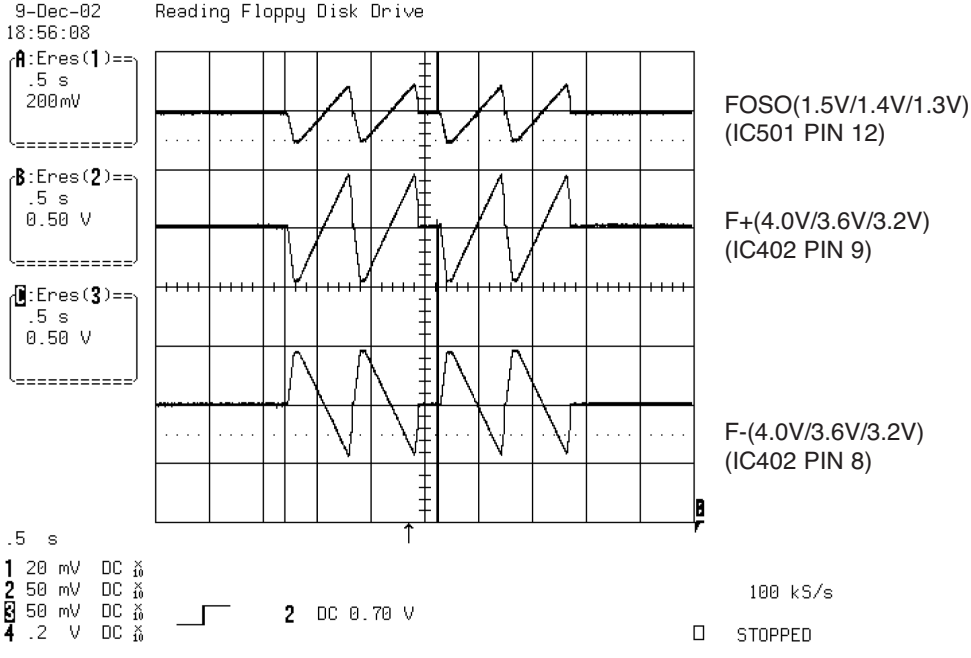


FIG 5-1

6. LASER POWER CONTROL RELATED SIGNAL(NO DISC CONDITION)

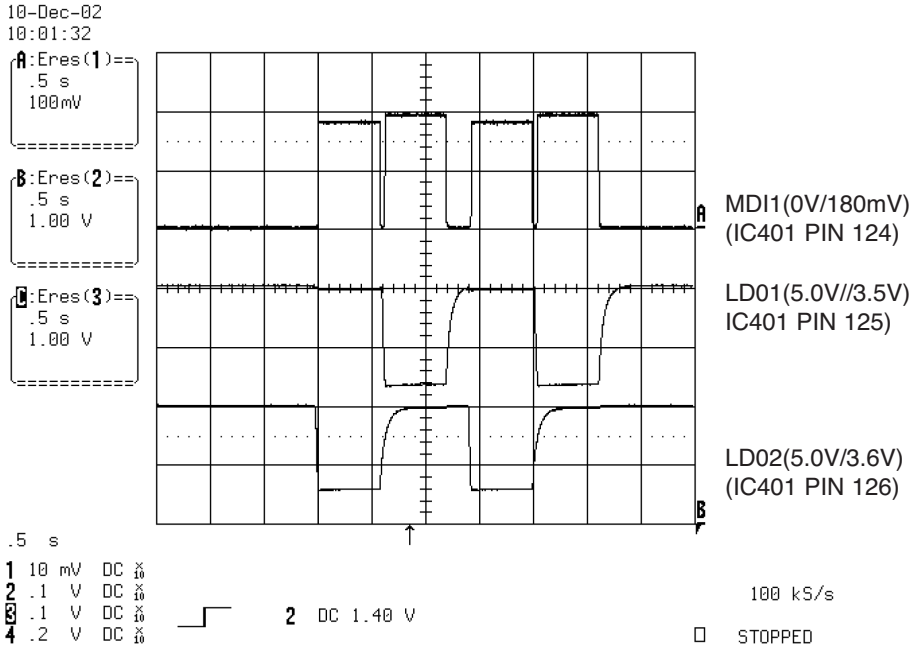


FIG 6-1

7. DISC TYPE JUDGEMENT WAVEFORMS

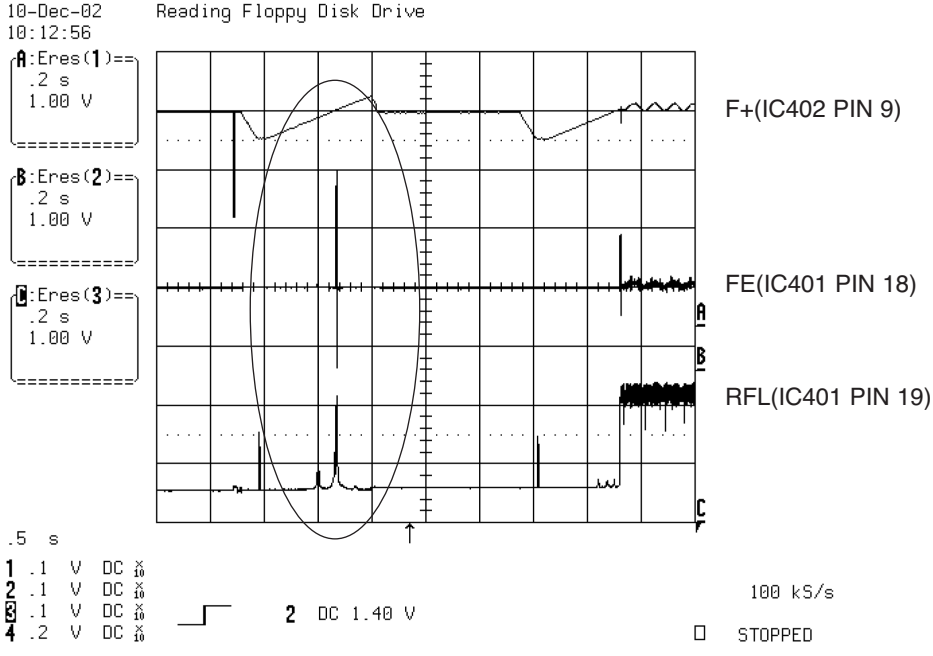


FIG 7-1 (DVD)

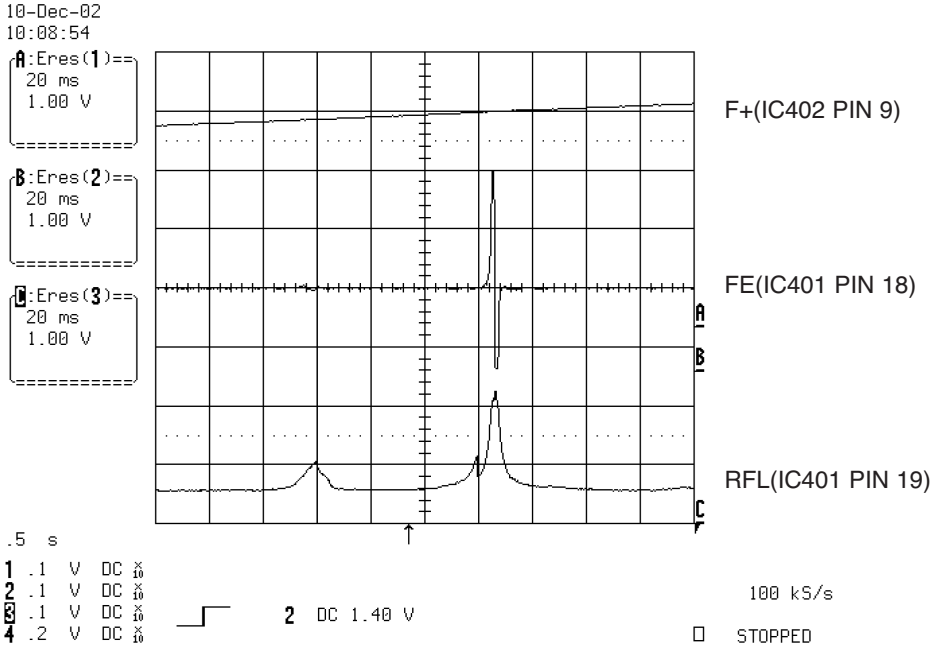


FIG 7-2 (DVD)

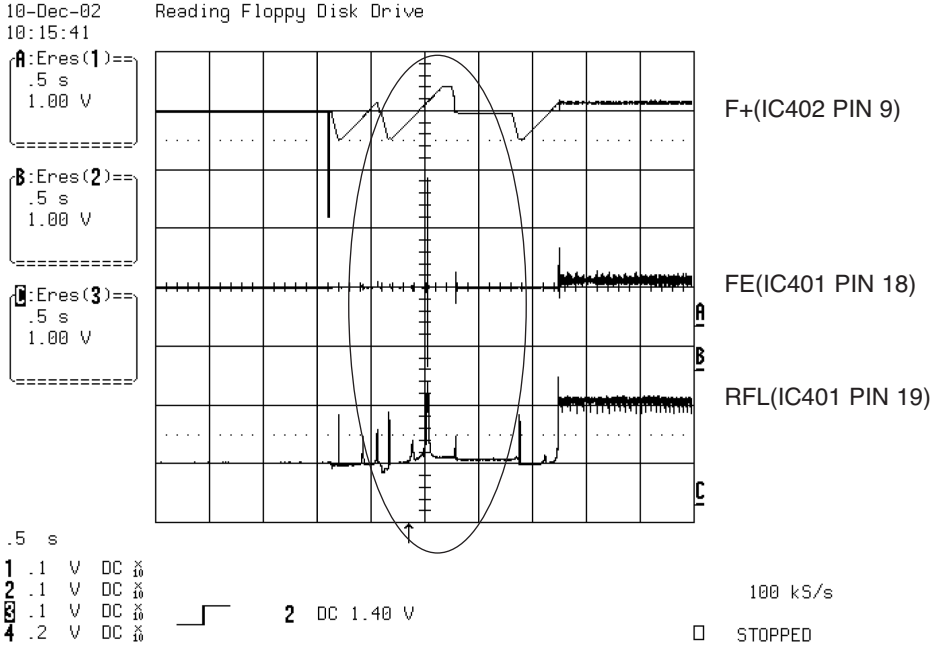


FIG 7-3 (CD)

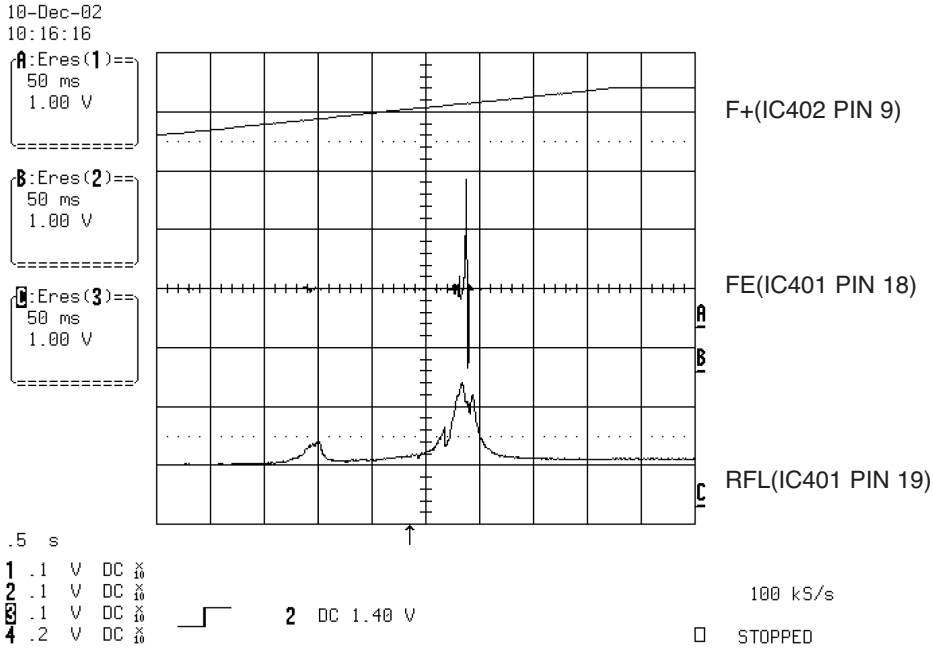


FIG 7-4 (CD)

8. FOCUS ON WAVEFORMS

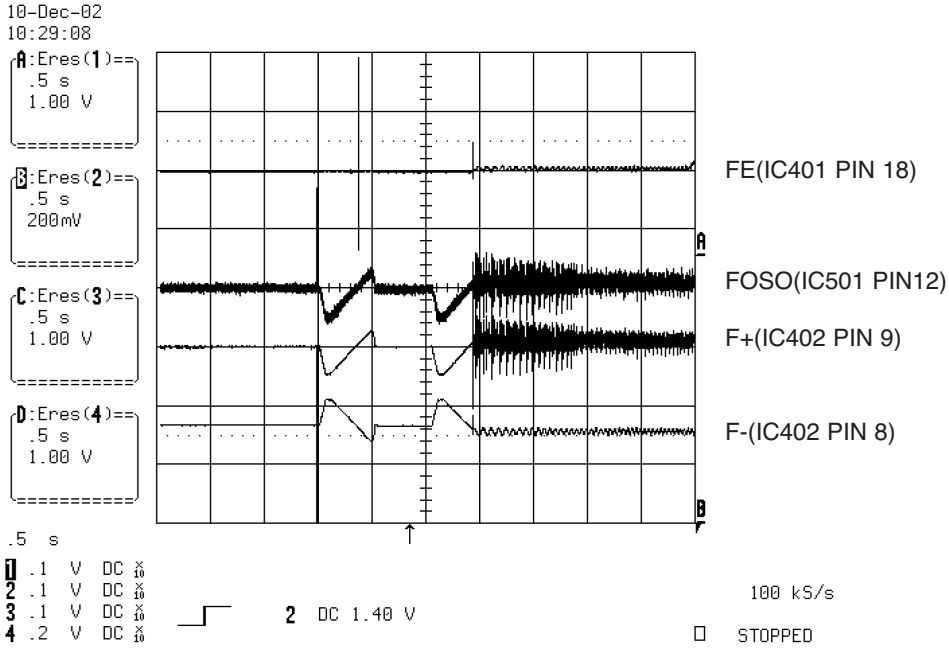


FIG 8-1 (DVD)

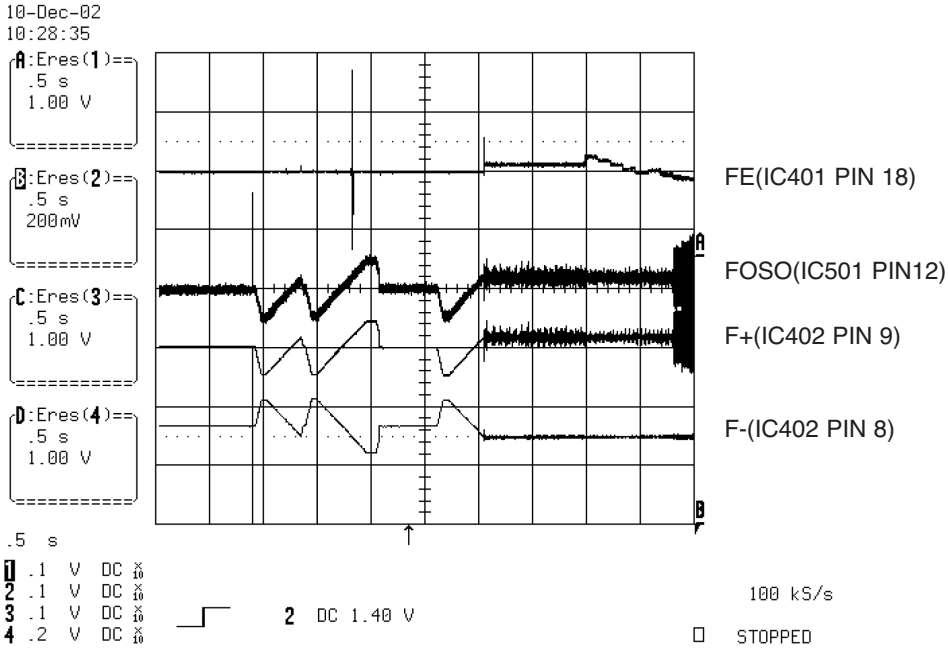


FIG 8-2 (CD)

9. SPINDLE CONTROL WAVEFORMS (NO DISC CONDITION)

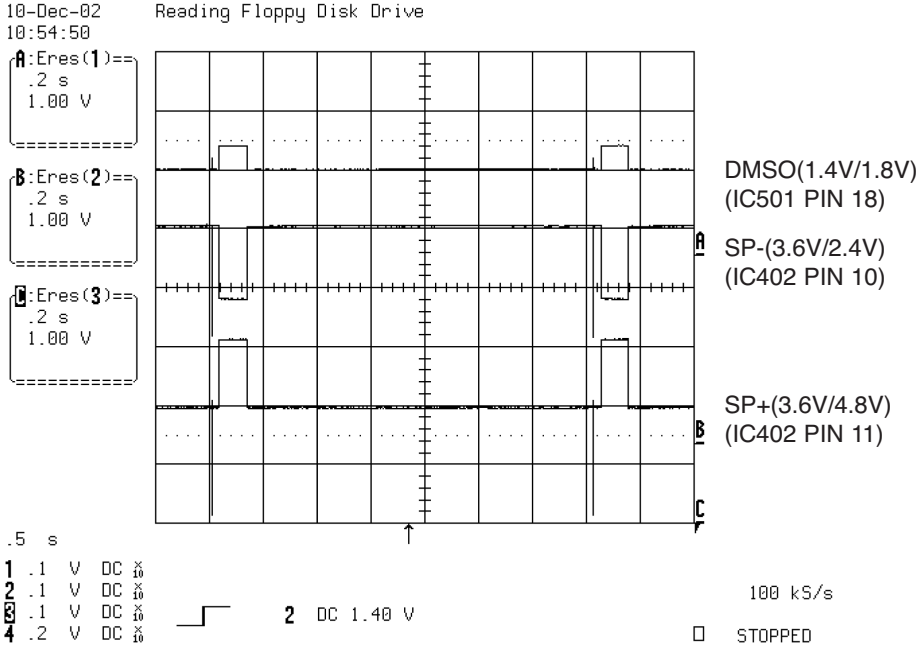


FIG 9-1

10. TRACKING CONTROL RELATED SIGNAL(System checking)

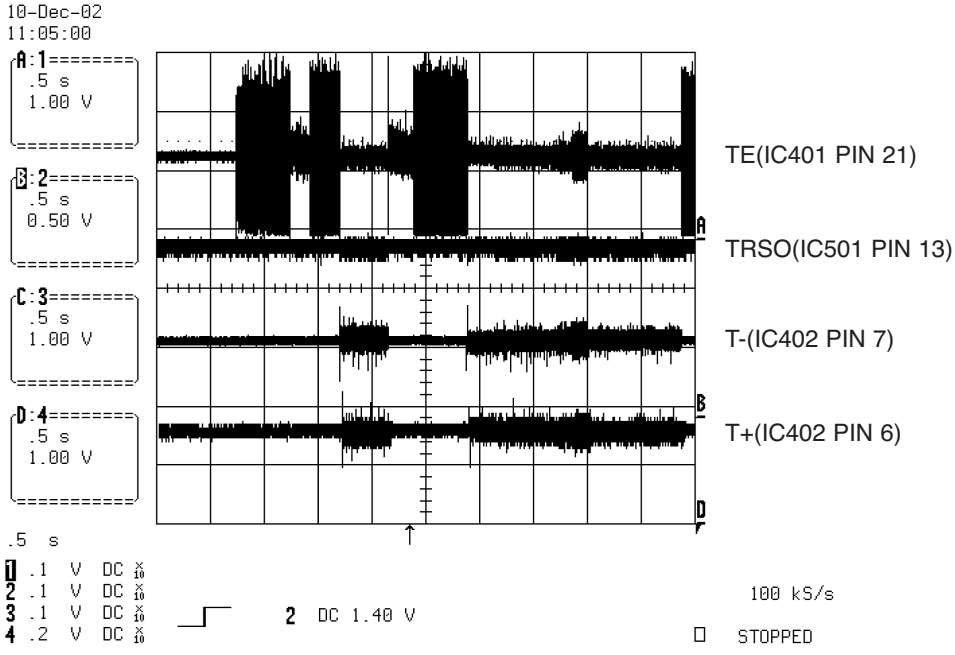


FIG 10-1(DVD)

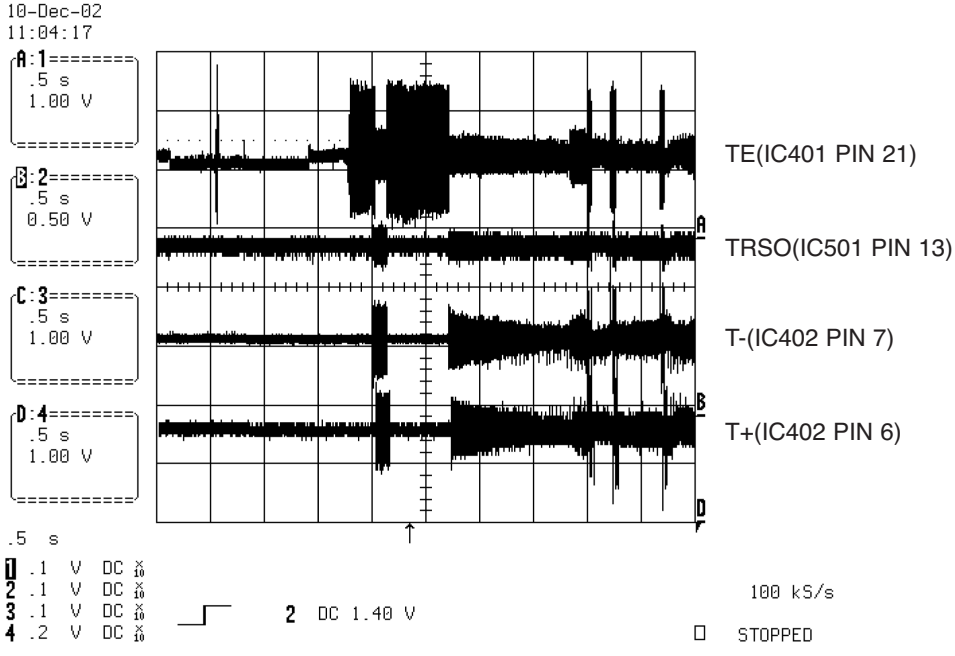


FIG 10-2(CD)

11. RF WAVEFORM

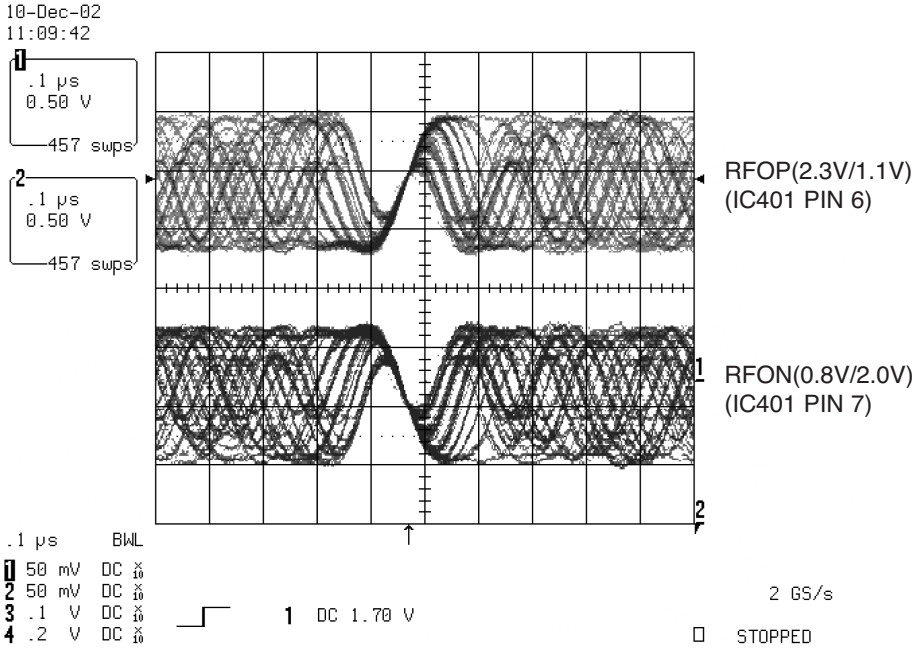


FIG 11-1

12. MT1379 VIDEO OUTPUT WAVEFORMS

1) Full colorbar signal(CVBS)

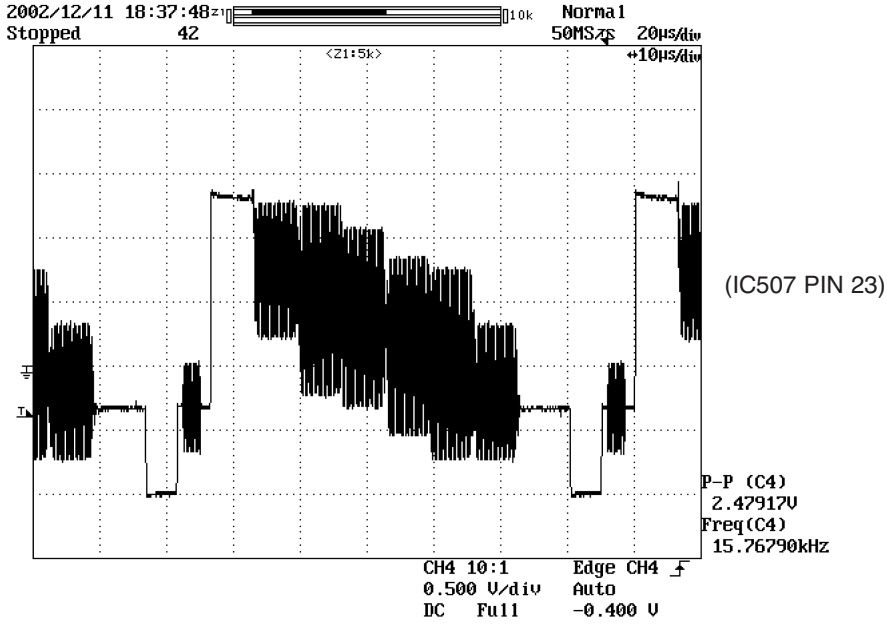
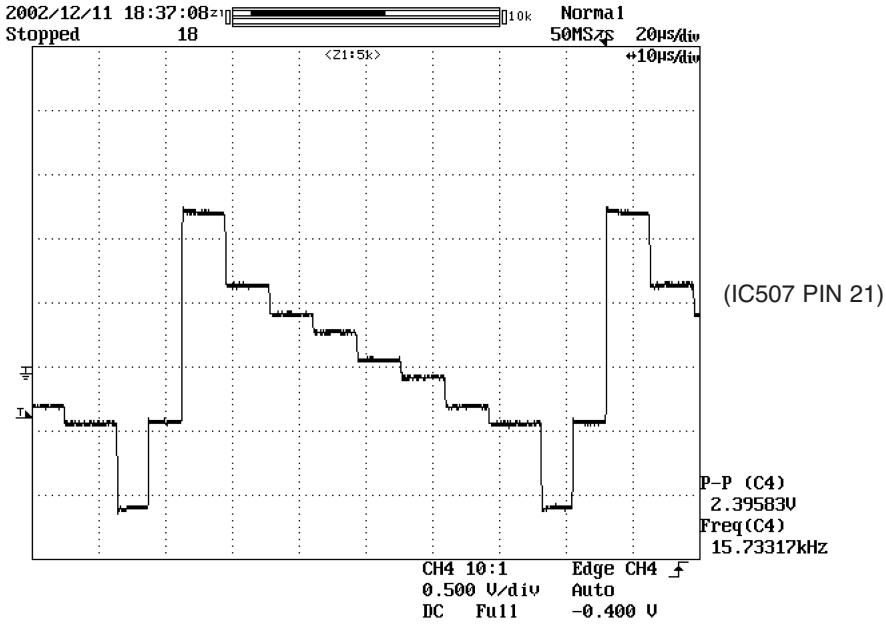


FIG 12-1

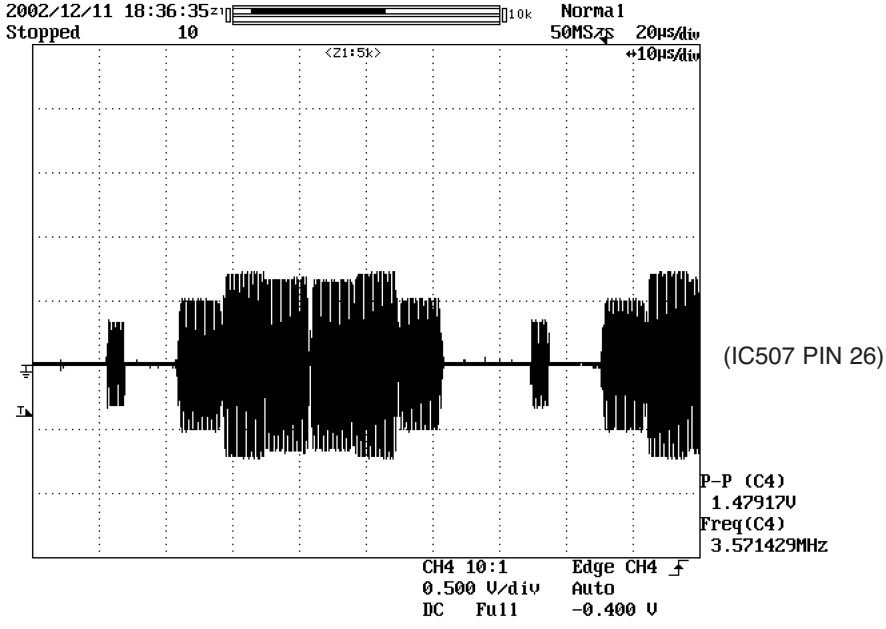
2) Y



(IC507 PIN 21)

FIG 12-2

3) C



(IC507 PIN 26)

FIG 12-3

13. AUDIO OUTPUT FROM AUDIO DAC

1) Audio L/R

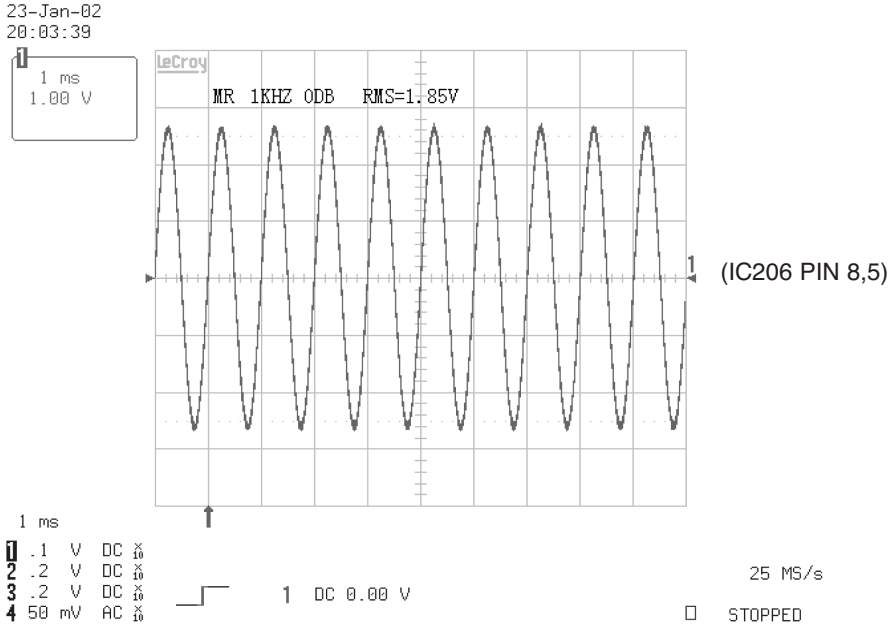


FIG 13-1

2) Audio related Signal

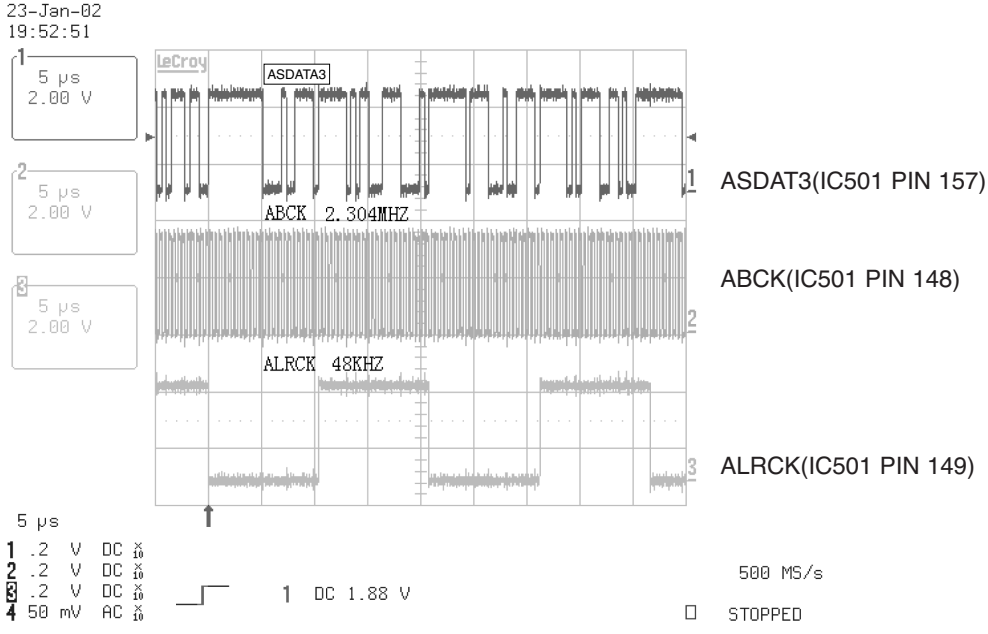
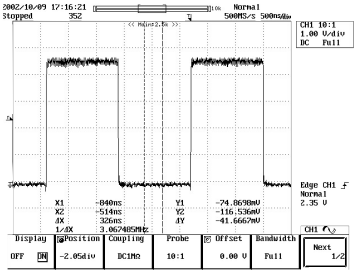


FIG 13-2

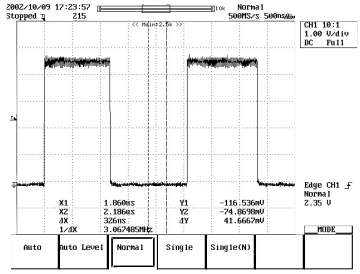
14. DVD & AMP WAVEFORMS

1)



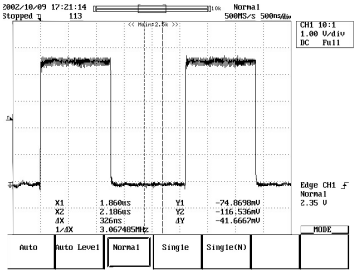
• R311 → FRONT L

2)



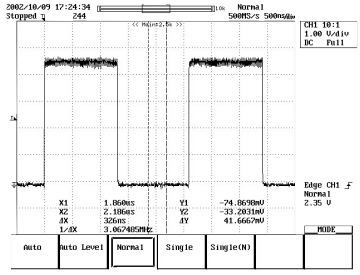
• R303 → FRONT R

3)



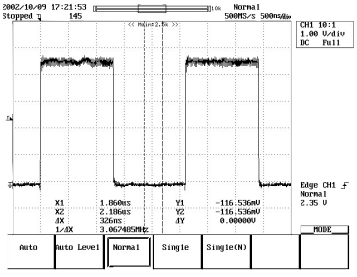
• R309 → SURROUND L

4)



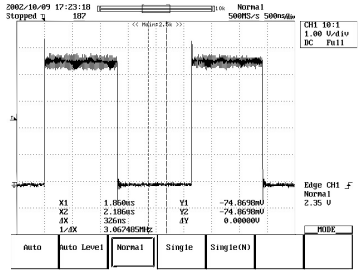
• R301 → SURROUND R

5)



• R307 → CENTER

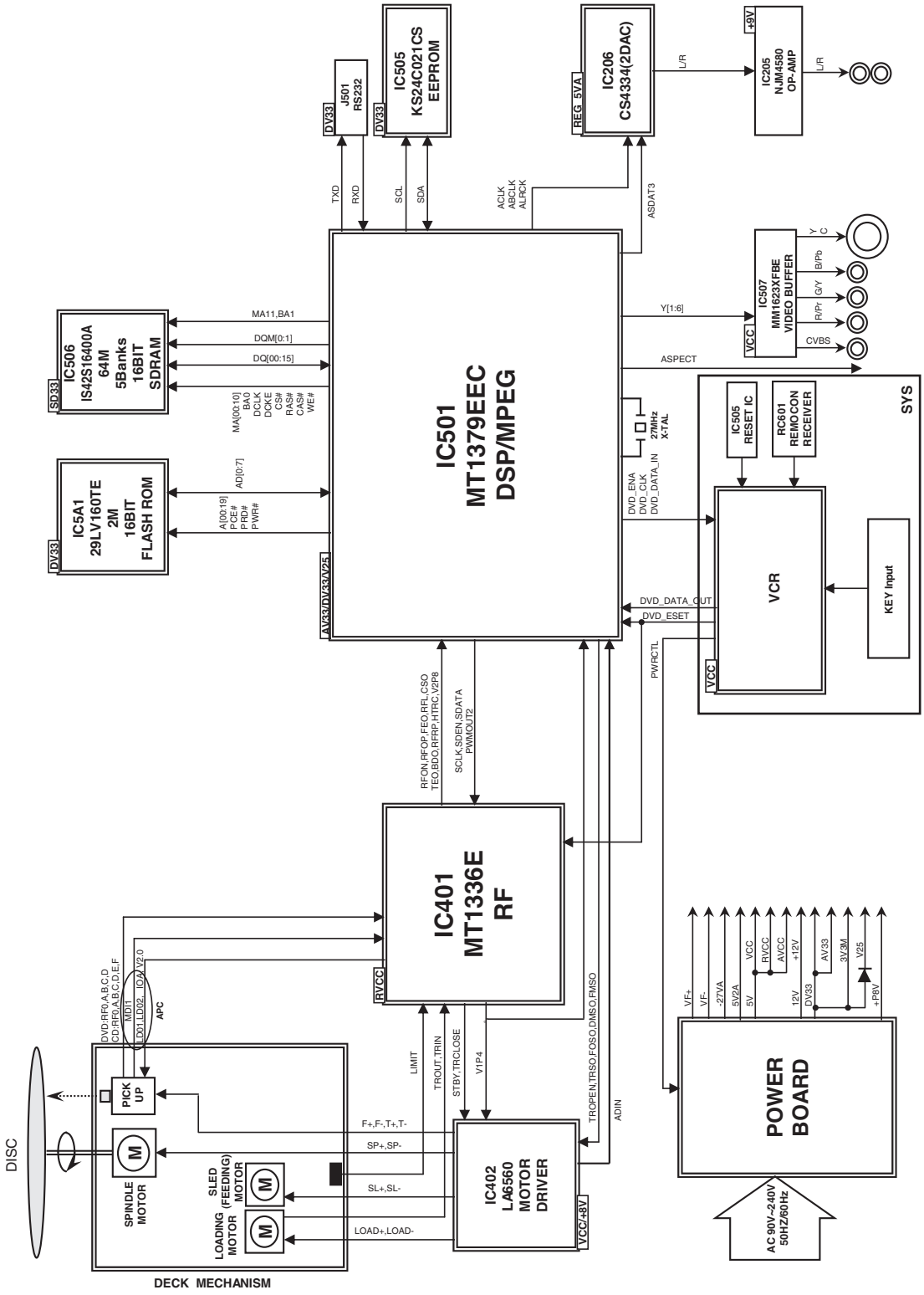
6)



• R305 → WOOFER

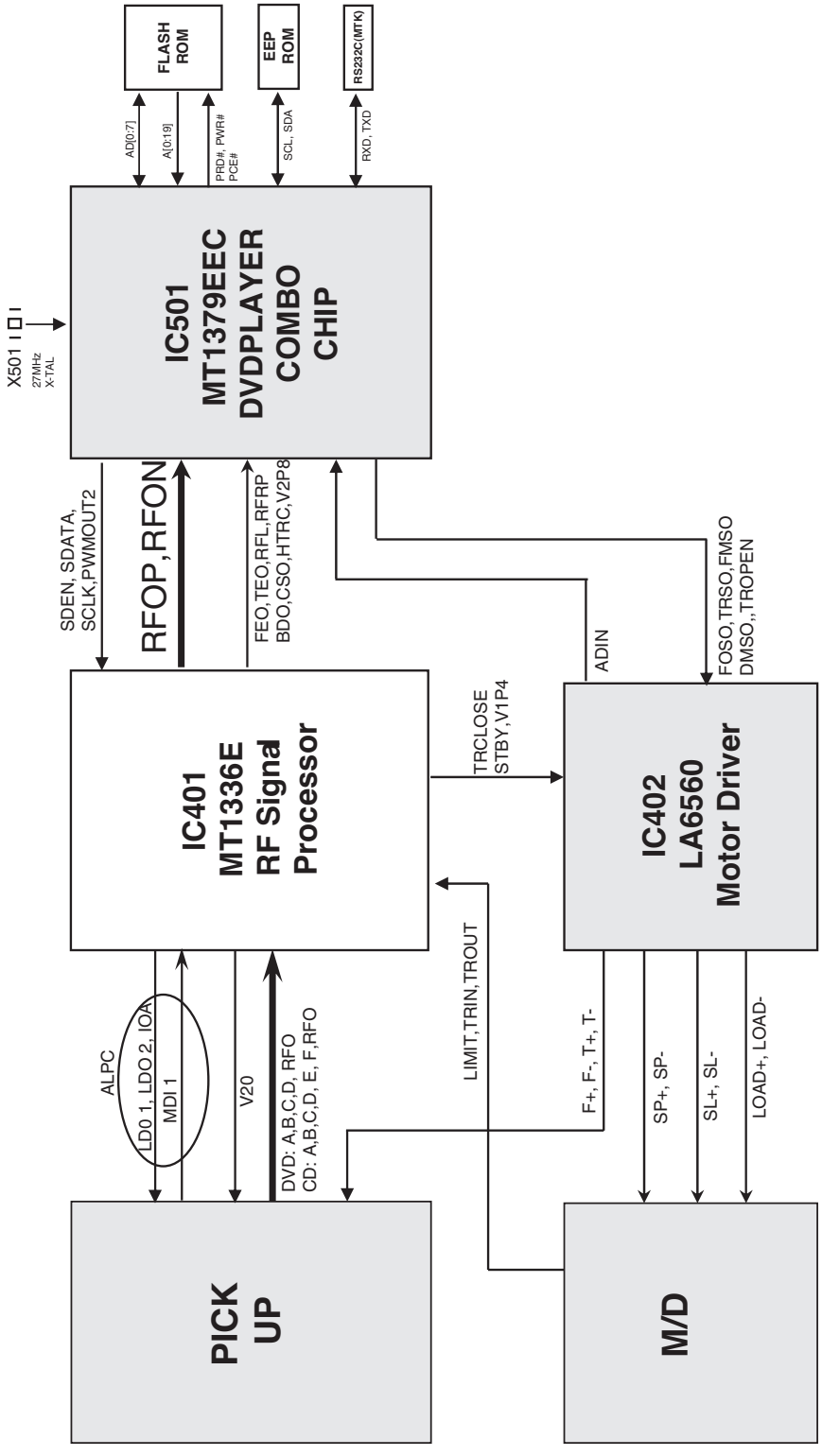
BLOCK DIAGRAMS

1. Overall Block Diagram



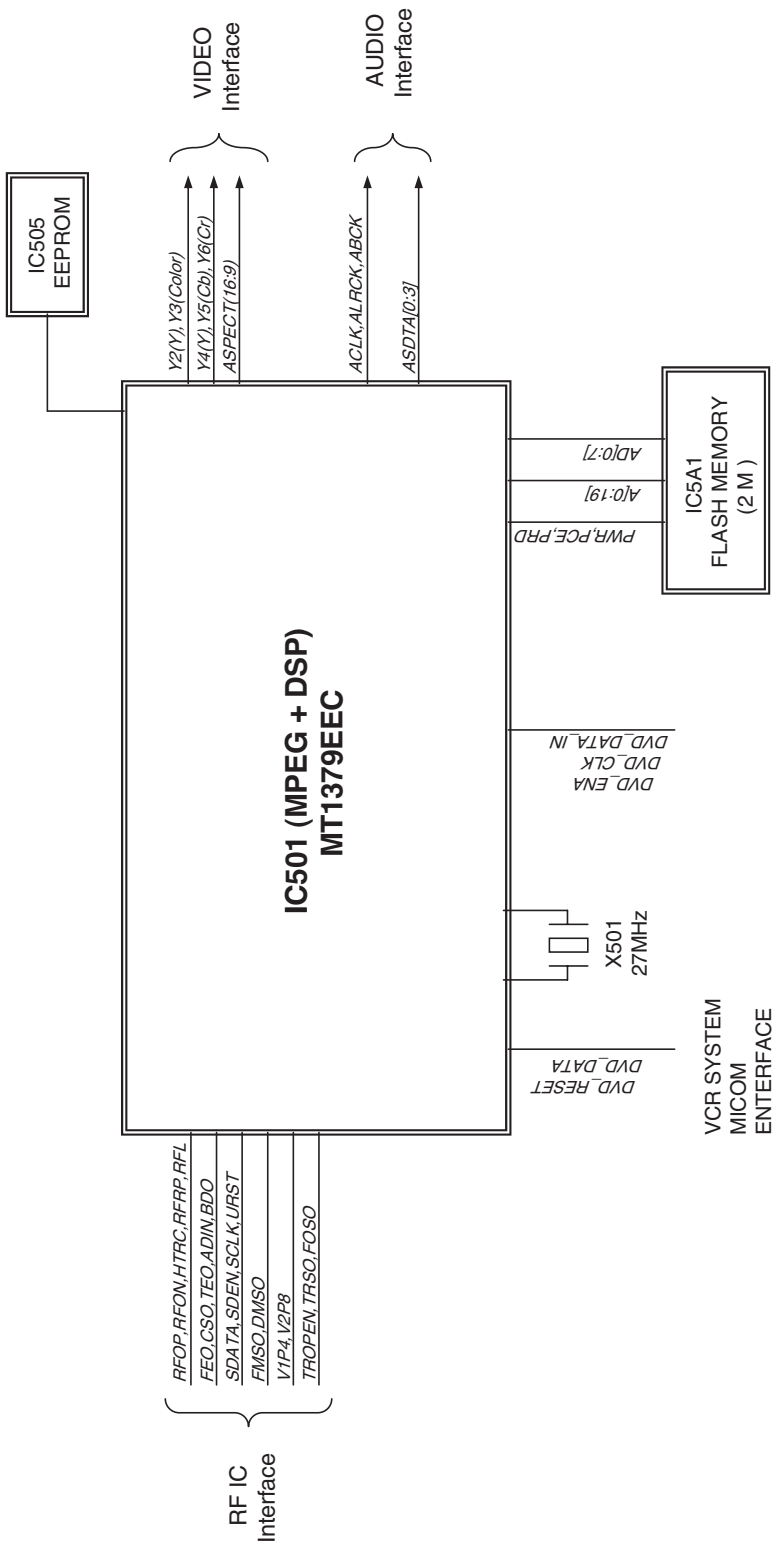
TOSHIBA
LH-C444M

2. SERVO Block Diagram



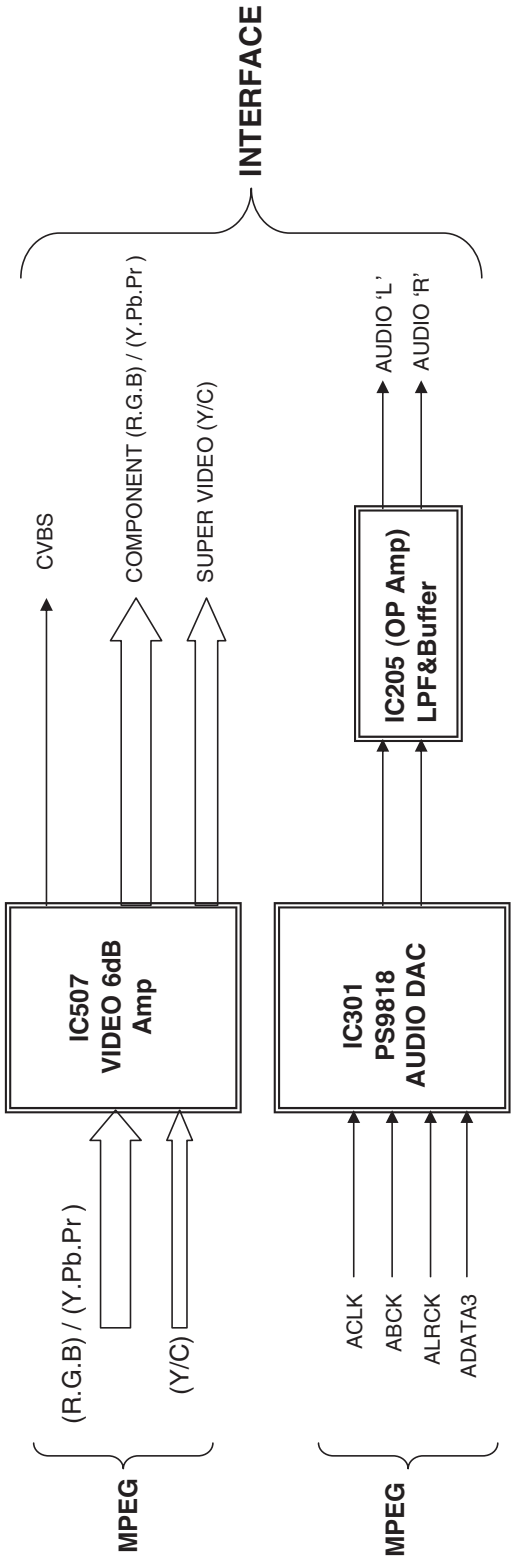
TOSHIBA
LH-C444M

3. MPEG & MEMORY Block Diagram

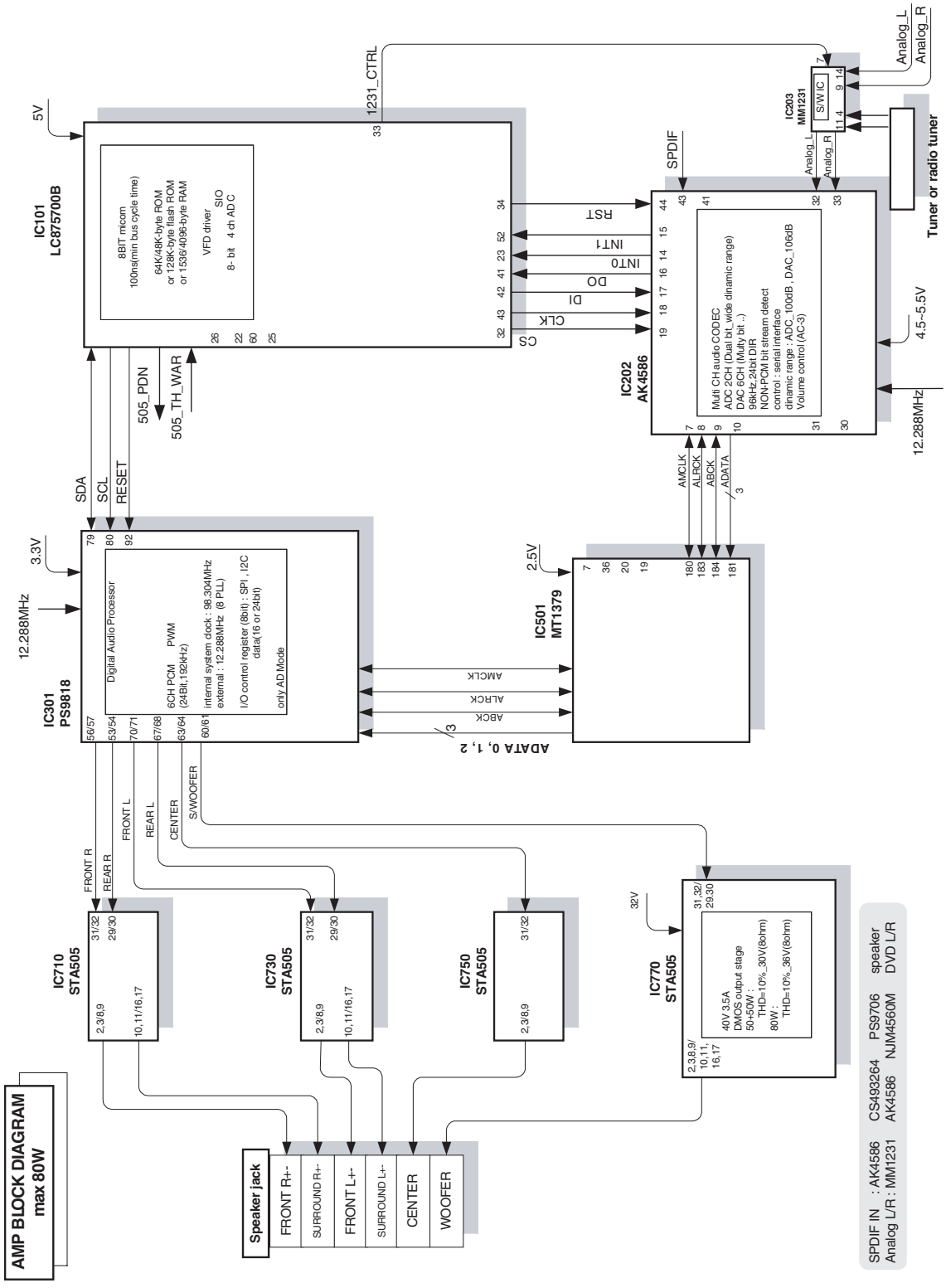


TOSHIBA
LH-C444M

4. VIDEO & AUDIO Block Diagram



5. DVD & AMP Block Diagram



TOSHIBA
LH-C444M

MEMO

CIRCUIT DIAGRAMS

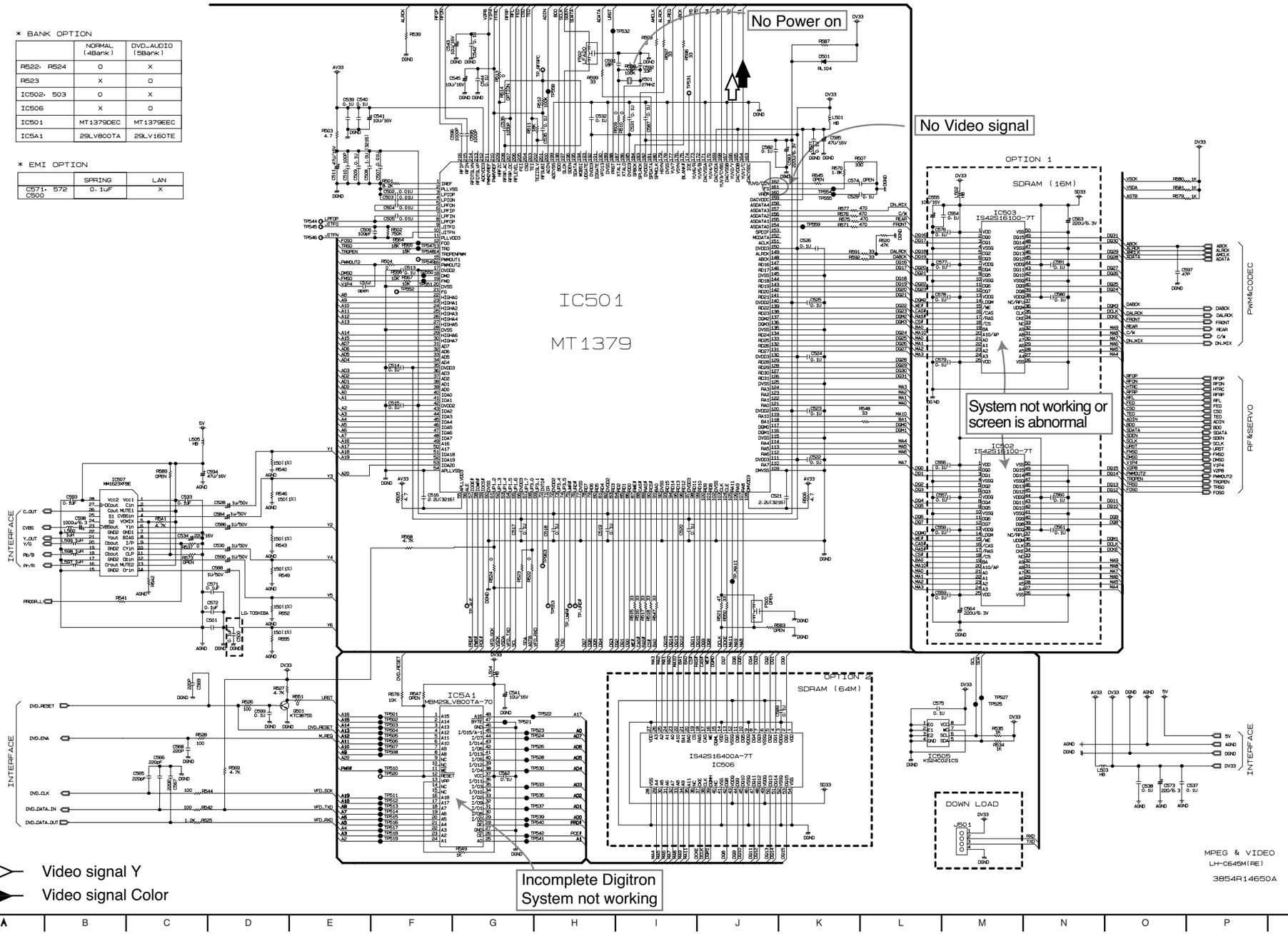
1. MPEG CIRCUIT DIAGRAM

* BANK OPTION

	NORMAL (4Bank)	DVD_AUDIO (5Bank)
R522, R524	O	X
R523	X	O
IC502, 503	O	X
IC506	X	O
IC501	MT1379DEC	MT1379EEC
IC5A1	29LV800TA	29LV160TE

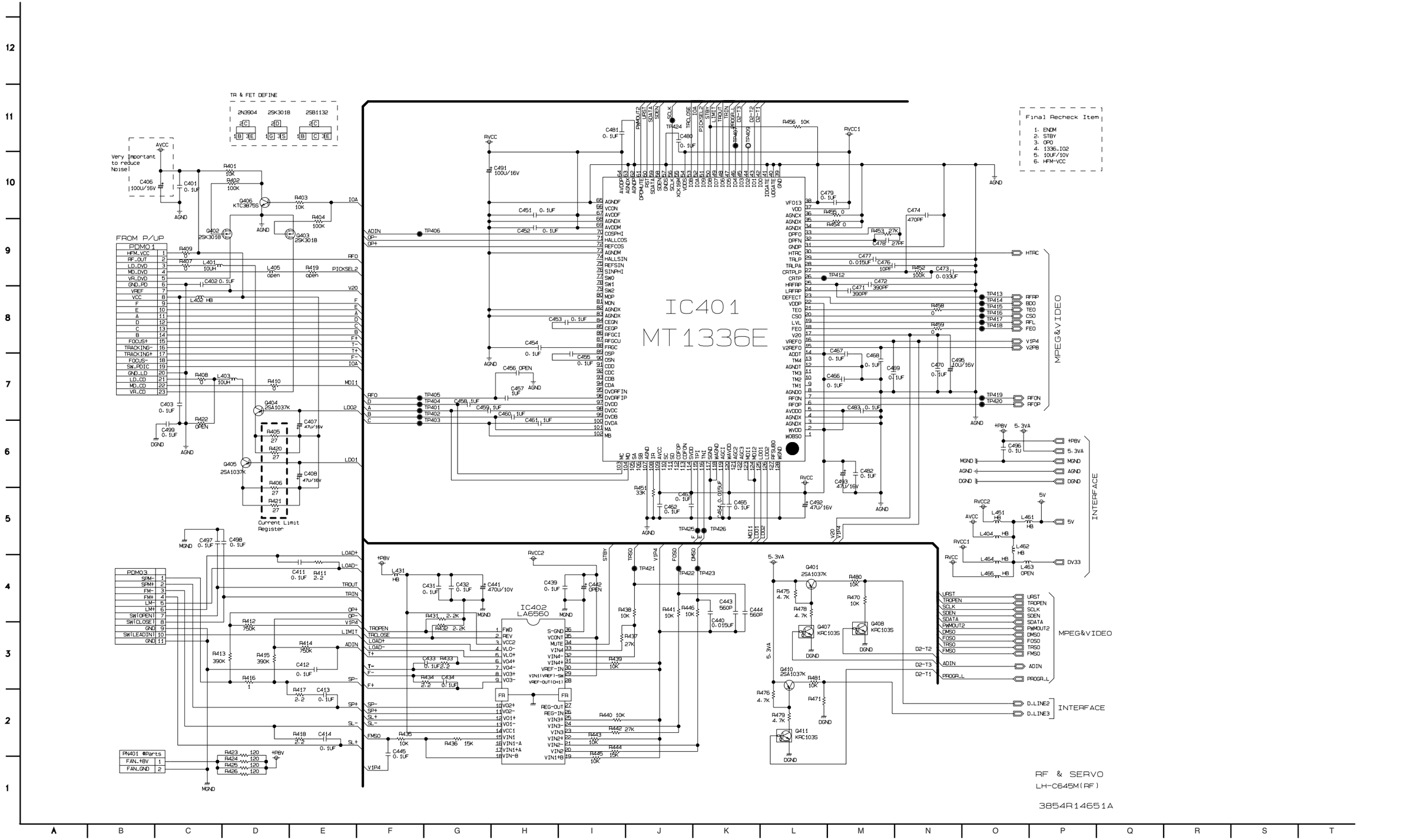
* EMI OPTION

	SPRING	LAN
C571, 572 C500	0.1uF	X



MPEG & VIDEO
LH-C645M(RE)
3854R14650A

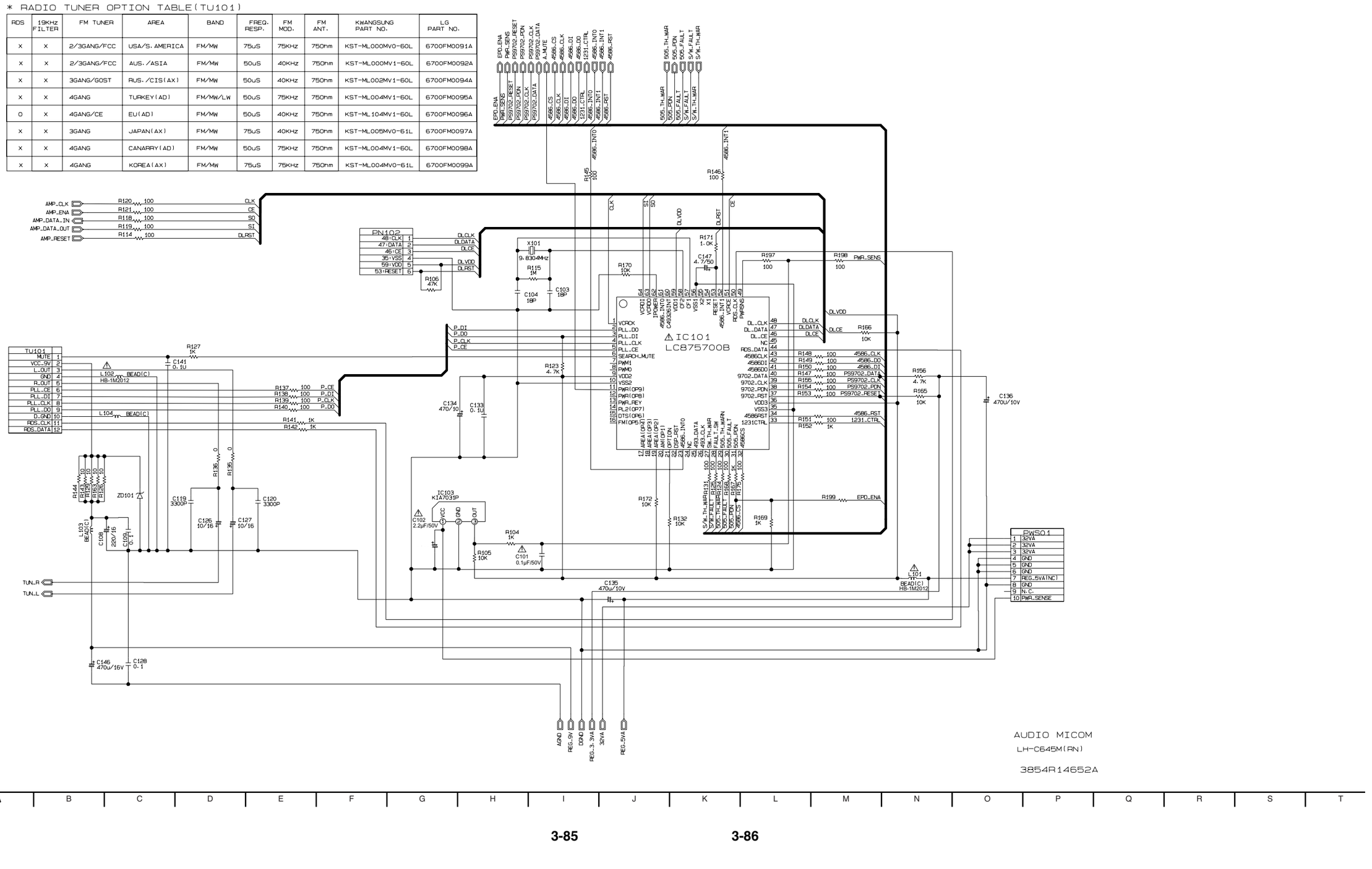
2. RF & SERVO CIRCUIT DIAGRAM



3. AUDIO, μ_COM CIRCUIT DIAGRAM(DVD & AMP)

* RADIO TUNER OPTION TABLE(TU101)

RDS	19KHz FILTER	FM TUNER	AREA	BAND	FREQ. RESP.	FM MOD.	FM ANT.	KWANGSUNG PART NO.	LG PART NO.
X	X	2/3GANG/FCC	USA/S.AMERICA	FM/MW	75uS	75KHz	75Ohm	KST-ML000MV0-60L	6700FM0091A
X	X	2/3GANG/FCC	AUS./ASIA	FM/MW	50uS	40KHz	75Ohm	KST-ML000MV1-60L	6700FM0092A
X	X	3GANG/GOST	RUS./CIS(AX)	FM/MW	50uS	40KHz	75Ohm	KST-ML002MV1-60L	6700FM0094A
X	X	4GANG	TURKEY(AD)	FM/MW/LW	50uS	75KHz	75Ohm	KST-ML004MV1-60L	6700FM0095A
O	X	4GANG/CE	EU(AD)	FM/MW	50uS	40KHz	75Ohm	KST-ML104MV1-60L	6700FM0096A
X	X	3GANG	JAPAN(AX)	FM/MW	75uS	40KHz	75Ohm	KST-ML005MV0-61L	6700FM0097A
X	X	4GANG	CANARRY(AD)	FM/MW	50uS	75KHz	75Ohm	KST-ML004MV1-60L	6700FM0098A
X	X	4GANG	KOREA(AX)	FM/MW	75uS	75KHz	75Ohm	KST-ML004MV0-61L	6700FM0099A



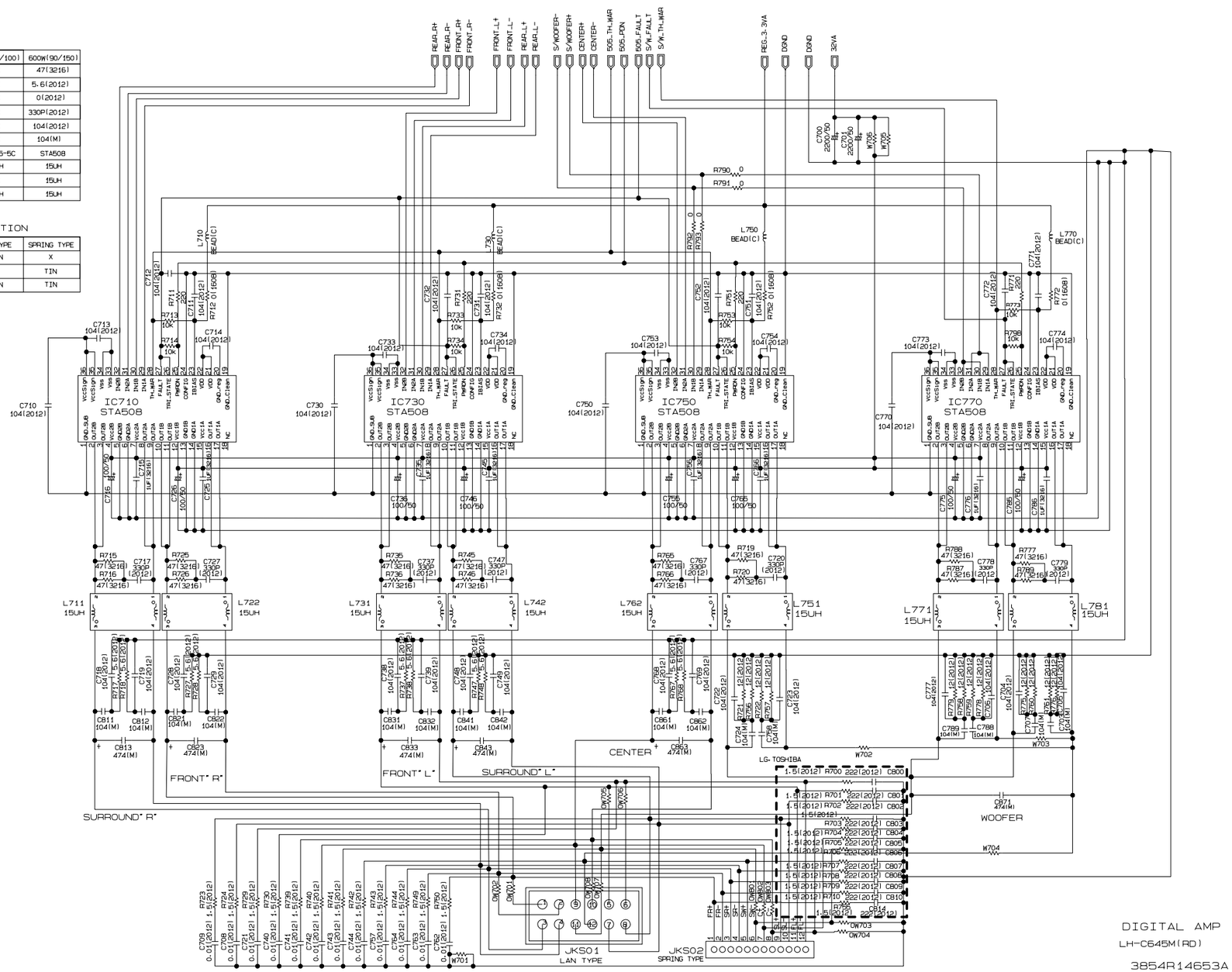
4. DIGITAL AMP CIRCUIT DIAGRAM (DVD & AMP)

* AMP POWER OPTION

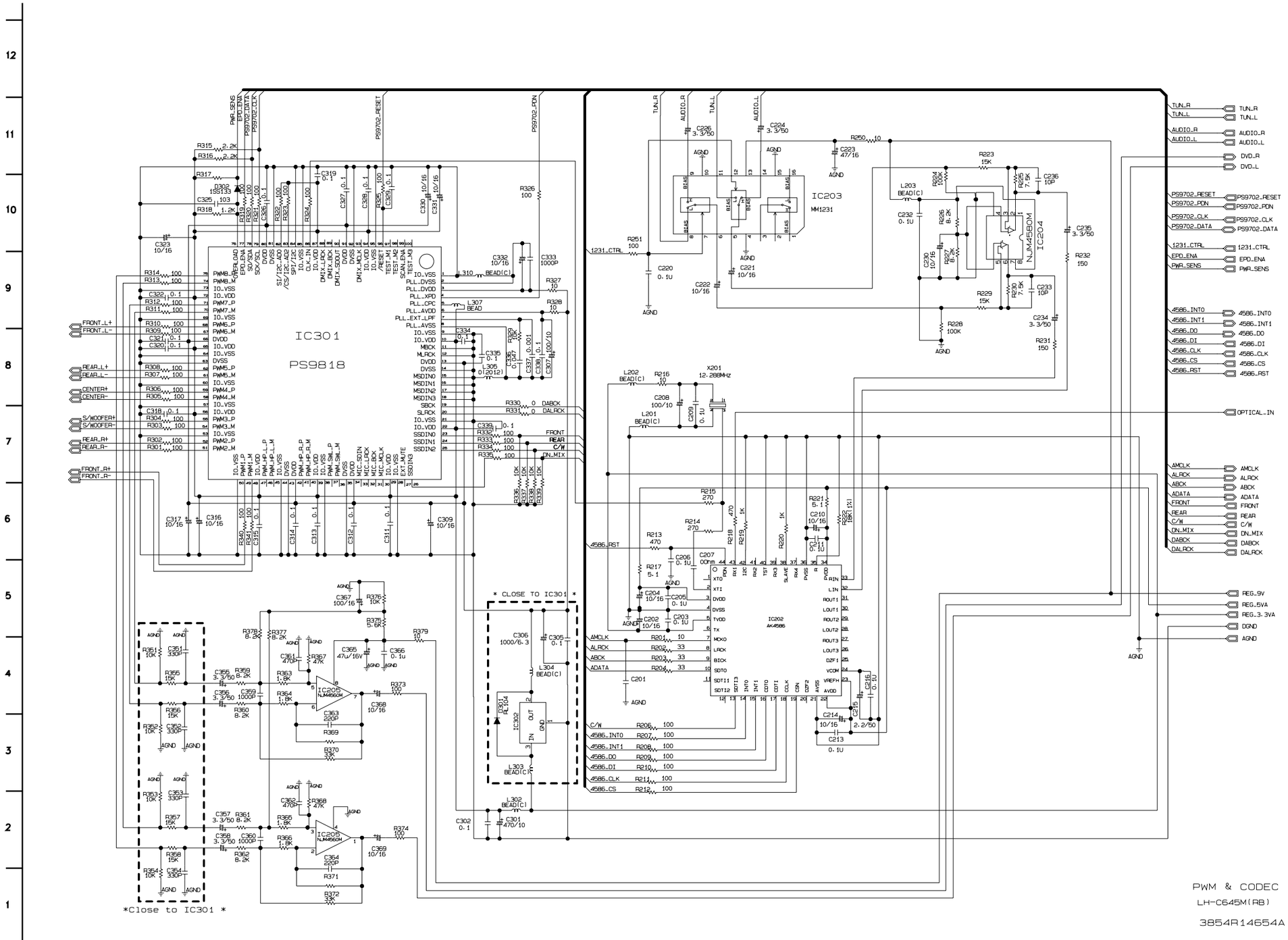
	400W(60/100)	600W(90/150)
R719. 720	X	47(3216)
R721. 722	X	5.6(2012)
R792. 793	X	0(2012)
C720	X	330P(2012)
C722. 723	X	104(2012)
C724. 758	X	104(M)
IC710. 730. 750. 770	STA505-5C	STA508
L711. 722. 731. 742. 762	22UH	15UH
L751	X	15UH
L771. 781	15UH	15UH

* SPEAKER TERMINAL OPTION

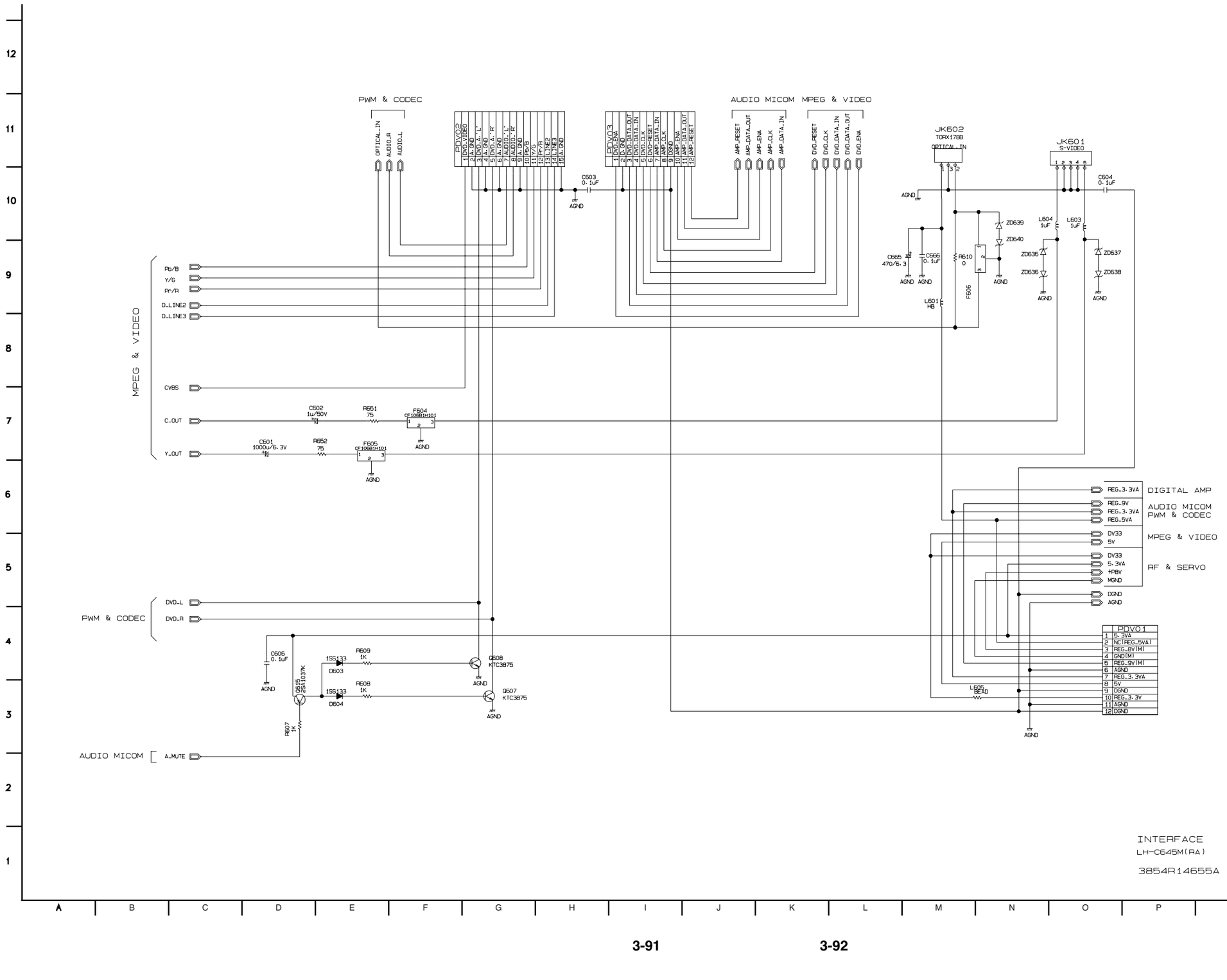
	LAN TYPE	SPRING TYPE
OW701 ~ OW708	TIN	X
OWB01 ~ OWB03	X	TIN
W701 ~ 706	TIN	TIN



5. PWM & CODEIC CIRCUIT DIAGRAM (DVD & AMP)



6. INTERFACE CIRCUIT DIAGRAM (DVD & AMP)



• CIRCUIT VOLTAGE CHART

MODE / PIN NO.	STOP	PLAY
IC101		
1	5.23	5.22
2	0	0
3	1.75	1.99
4	0	0
5	4.91	4.91
6	NC	NC
7	0.54	1.88
8	0.54	1.88
9	4.91	4.91
10	0	0
11	4.77	4.77
12	0.12	0.12
13	4.72	4.72
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	3.24	3.22
23	0.91	0.91
24	1.65	1.65
25	0	0
26	0	0
27	1.99	1.93
28	3.12	3.12
29	3.26	3.25
30	3.12	3.12
31	4.65	4.65
32	NC	NC
33	NC	NC
34	NC	NC
35	0	0
36	4.91	4.91
37	3.25	3.24
38	4.91	4.91
39	0	0
40	3.22	3.2
41	NC	NC
42	NC	NC
43	NC	NC
44	NC	NC
45	NC	NC
46	4.91	4.9
47	2.08	2.03
48	2.07	2.07
49	4.91	4.9
50	NC	NC
51	5.09	5.08
52	0	0
53	4.91	4.91
54	2.16	2.1

MODE / PIN NO.	STOP	PLAY
55	2.04	1.96
56	0	0
57	2.36	2.36
58	2.42	2.42
59	4.9	4.91
60	2.4	2.4
61	1.8	1.9
62	4.9	4.9
63	0	0
64	5.23	5.22
IC102		
1	4.93	4.93
2	0	0
3	4.93	4.93
IC202(AK4586)		
1	2.41	2.39
2	2.04	2.07
3	4.85	4.84
4	0	0.01
5	3.28	3.28
6	4.85	0.01
7	1.18	1.15
8	1.65	1.65
9	1.63	1.62
10	1.3	1.25
11	0	1.63
12	0	1.63
13	0	0.58
14	0	0.03
15	0	0.03
16	0.45	0.2
17	0	0.01
18	0	0.02
19	4.93	4.92
20	0	0.02
21	0	0.01
22	4.94	4.93
23	4.93	4.93
24	2.46	2.46
25	0	0.02
26	2.47	2.47
27	2.47	2.47
28	2.47	2.47
29	2.47	2.47
30	2.47	2.47
31	2.47	2.47
32	2.47	2.46
33	2.47	2.46
34	4.93	4.92
35	1.2	1.2
36	0	0.01
37	2.44	2.45
38	0	0.01
39	2.44	2.45
40	0	0.02

MODE / PIN NO.	STOP	PLAY
41	2.44	2.45
42	0	0.01
43	4.24	4.23
44	4.93	4.93
IC301		
1	0	0
2	0	0
3	3.21	3.18
4	4.91	4.91
5	3.21	3.18
6	2.95	2.92
7	1.72	1.7
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	3.21	3.18
16	0	0
17	0	0.9
18	0	0
19	0	0
20	0	0
21	0	0.9
22	1.59	1.6
23	1.63	1.62
24	3.22	3.18
25	0	0
26	0	0.9
27	0	0
28	0	0
29	0	0
30	NC	NC
31	NC	NC
32	3.21	3.18
33	0	0
34	NC	NC
35	NC	NC
36	NC	NC
37	0	0
38	1.6	1.59
39	NC	NC
40	3.21	3.18
41	0	0
42	NC	NC
43	0	0
44	NC	NC
45	NC	NC
46	3.21	3.18
47	0	0
48	NC	NC
49	NC	NC
50	0	0

MODE / PIN NO.	STOP	PLAY
51	3.21	318
52	0	0
53	1.59	1.58
54	1.59	1.58
55	0	0
56	1.59	1.58
57	1.59	1.58
58	3.21	3.18
59	0	0
60	1.59	1.58
61	1.59	1.58
62	0	0
63	1.59	1.58
64	1.59	1.59
65	3.21	3.18
66	0	0
67	1.59	1.58
68	1.59	1.58
69	0	0
70	1.59	1.58
71	1.59	1.58
72	3.21	3.18
73	0	0
74	0	0
75	0	0
76	3.1	3.09
77	3.21	3.18
78	0	0
79	3.22	3.2
80	0	0
81	3.21	3.18
82	3.21	3.18
83	0	0
84	3.21	3.18
85	0	0
86	1.67	1.67
87	NC	NC
88	NC	NC
89	0	0
90	3.21	3.18
91	0	0
92	3.25	3.24
93	0	0
94	0	0
95	0	0
96	0	0
97	NC	NC
98	0	0
99	3.21	3.18
100	0	0
IC401(MT1336E)		
1	1.03	2.99
2	5.11	5.08
3	0	0
4	0	0

MODE / PIN NO.	STOP	PLAY
5	5.11	5.07
6	0	1.95
7	0	0
8	0	0
9	5.11	0
10	5.11	5.08
11	5.11	5.08
12	0	0
13	5.11	0
14	5.11	5.08
15	2.84	2.81
16	1.45	1.43
17	2.08	2.07
18	1.37	1.42
19	0.69	2.3
20	2.4	0
21	2.35	0
22	5.11	5.08
23	0	0
24	2.59	3.2
25	0.19	1.88
26	1.58	0
27	2.56	3.13
28	2	2.01
29	2	2.06
30	2.96	1.52
31	0	0
32	0.06	2.07
33	0.07	2.07
34	0	0
35	0	0
36	0	0
37	5.13	0
38	0	0
39	0	0
40	0	0
41	0	0
42	5.12	5.09
43	5.12	5.09
44	5.12	5.09
45	5.12	5.09
46	5.12	5.09
47	0	0
48	5.12	5.09
49	5.12	0
50	5.08	5.06
51	5.09	5.07
52	5.1	0
53	0	0
54	5.13	0
56	1.61	0
57	0	0
58	0	0
59	0	0
60	0	0

MODE / PIN NO.	STOP	PLAY
61	3.28	0
62	0	0
63	0	0
64	0	0
65	0	0
66	0.026	0
67	5.12	5.08
68	0	0
69	5.12	0
70	3.21	2.03
71	3.46	2.2
72	2.81	0
73	0	0
74	0.21	0.09
75	0.22	0
76	0	0.1
77	0.21	0.09
78	0.23	0.09
79	0.21	0.08
80	0.23	0.08
81	0.22	0
82	0	0
83	0	0
84	0.07	0
85	0.07	2.27
86	1.97	0
87	1.96	1.9
88	1.54	1.71
89	0.19	2.22
90	0.21	0
91	0.22	0.06
92	0.22	0
93	0.23	0.06
94	0.23	0.06
95	2.28	0
96	2.28	2.25
97	2.27	1.23
98	2.27	2.23
99	2.27	2.23
100	2.16	2.23
101	2.08	2.17
102	2.07	2.17
103	2.07	2.18
104	2.08	0
105	0.13	0.15
106	0.14	0.16
107	0	0
108	1.28	1.28
109	5.18	5.05
110	0.14	0.16
111	0.15	0.15
112	0.13	0.16
113	0.14	0.15
114	5.1	5.05
115	2.07	2.06

MODE / PIN NO.	STOP	PLAY
116	2.06	2.09
117	0	0
118	0	0
119	0	0
120	5.1	5.05
121	0.13	0.15
122	0.14	0.15
123	0	0.18
124	0	0.18
125	5.08	5.03
126	5.08	3.16
127	0.06	2.08
128	0	0
IC402 (LA6560)		
1	0	0
2	0	0
3	8.04	8.01
4	0.12	0.06
5	0	0.06
6	3.64	3.69
7	3.62	3.61
8	3.64	3.53
9	3.6	3.76
10	3.62	2.43
11	3.63	4.85
12	3.62	3.72
13	3.64	3.57
14	8.04	8.01
15	1.45	1.48
16	0.27	1.39
17	0.29	1.32
18	1.45	1.43
19	1.45	1.43
20	1.45	0.82
21	1.45	1.43
22	1.45	1.43
23	1.47	1.37
24	1.45	1.43
25	1.45	1.43
26	0.95	0.9
27	0	0
28	1.45	1.43
29	5.15	5.11
30	1.45	1.43
31	1.45	1.43
32	1.45	1.43
33	1.46	1.45
34	5.08	5.06
35	5.15	5.11
36	0	0
IC402 (LA6560)		
1	1.22	1.22
2	0	0
3	0.96	0.9
4	2	2.06

MODE / PIN NO.	STOP	PLAY
5	0	1.51
6	1.48	1.47
7	0	1.56
8	3.2	1.52
9	0.12	0.06
10	0.12	0.06
11	3.25	3.25
12	1.41	1.49
13	1.41	1.41
14	0	0
15	1.42	1.42
16	3.3	0
17	2.53	2.53
18	1.42	2.27
19	1.42	1.39
20	0	0
21	2.61	2.58
22	0.75	1.46
23	2.83	1
24	1.9	0.89
25	1.72	0.39
26	0.68	0.31
27	2.84	3.16
28	0	0
29	2.85	0.66
30	1.83	0.49
31	0.91	1.39
32	1.43	1.2
33	1.51	1.57
34	1.51	1.43
35	3.3	3.29
36	0.81	1.26
37	1.45	1.02
38	1.82	1.6
39	1.2	1.5
40	2	2.06
41	2.17	1.95
42	2.53	2.52
43	1.96	1.9
44	1.79	1.9
45	0.8	1.72
46	0.8	1.96
47	0.8	1.84
48	3.3	2.63
49	0	0.13
50	0	0.07
51	0	0
52	0	0
53	0	0
54	0	0
55	3.25	3.27
56	1.2	1.18
57	0	0
58	3.29	3.29
59	0	0

MODE / PIN NO.	STOP	PLAY
60	0	0
61	2.59	2.57
62	2.58	2.58
63	0	0
64	2.59	2.56
65	3.29	3.29
66	3.3	3.29
67	3.29	3.29
68	2.57	2.56
69	5.19	5.18
70	2.59	2.57
71	0.12	0.08
72	2.53	2.52
73	2.59	2.57
74	3.29	3.29
75	2.61	2.61
76	3.27	3.24
77	0	0
78	0.94	1.04
79	0.78	1.06
80	0.89	1.15
81	0.99	1.34
82	2.52	2.52
83	3.09	1.33
84	0.37	1.16
85	3.08	1.1
86	3.07	1.08
87	0.59	1.04
88	1.57	2.53
89	3.2	3.13
90	2.77	2.53
91	0.22	1.68
92	0	0
93	3.32	1
94	0.16	1.58
95	3.31	1.62
96	3.3	1.08
97	3.3	3.29
98	3.32	1.62
99	0.16	1.09
100	3.32	1.27
101	3.3	1.32
102	0	0
103	1.56	1.55
104	0.94	1.25
105	0.41	0
106	0.05	0.06
107	0	0.06
108	3.27	3.26
109	0	0
110	0.19	1.74
111	3.3	3.29
112	0.18	1.62
113	2.98	2.38
114	3.02	1.48

MODE / PIN NO.	STOP	PLAY
115	0	0
116	2.86	3.01
117	2.86	2.54
118	0	0
119	0	2.5
120	2.55	2.51
121	3.03	1.4
122	3.03	1.4
123	0.22	1.39
124	0.22	0.34
125	0	0
126	3.31	0.98
127	0.26	1.64
128	3.31	1.53
129	3.3	1.15
130	3.3	3.29
131	3.31	1.49
132	0.16	0.89
133	3.3	0
134	3.3	1.07
135	0	0
136	2.86	2.53
137	2.86	2.53
138	0.07	0.86
139	0.09	0.99
140	0.07	2.51
141	0.07	0.94
142	0.09	1.13
143	0.07	1.19
144	0.09	1.07
145	0.09	0
146	0	1.51
147	0.09	1.25
148	0.07	1.64
149	0.06	0
150	0	1.65
151	0.07	3.29
152	0	1.6
153	0	1.64
154	0	1.44
155	0	0
156	0	0
157	0	1.63
158	0	3.29
159	0	3.27
160	0	1.27
161	0	1.27
162	0	2.35
163	0	0
164	0	0.73
165	0	3.27
166	0	0.5
167	0	0
168	0	0.53
169	0	3.27

MODE / PIN NO.	STOP	PLAY
170	0	0.59
171	0	0
172	3.01	0.72
173	0	0.72
174	0	0
175	0	2.73
176	0	3.13
177	0	3.13
178	0	3.25
179	0	0
180	0	0
181	2.04	2.64
182	0	2.52
183	0	0
184	0	0.09
185	0	3.26
186	_	_
187	0	0.08
188	0	0
189	0	0
190	0	0
191	0.23	0
192	0	3.29
193	0	0
194	0	0
195	0	0
196	0	0
197	0	1.63
198	0	0
199	0	0
200	0	2.15
201	0	1.44
202	0	1.44
203	0	1.43
204	0	1.43
205	0	1.42
206	0	2.1
207	0	2.07
208	0	1.41
209	0	1.52
210	0	1.43
211	0	2.81
212	0	3.28
213	0	0.12
214	0	0.12
215	1.02	1.43
216	0	1.43
IC505(EEPROM)		
1	0	0
2	0	0
3	0	0
4	0	0
5	3.28	3.29
6	3.28	3.29
7	0	0

MODE / PIN NO.	STOP	PLAY
8	3.28	3.29
IC507(MM1623)		
1	5.09	5.08
2	2.43	2.42
3	5.09	5.08
4	1.45	0
5	0	0
6	1.45	1.69
7	0	0
8	2.47	2.46
9	0	0
10	1.14	1.76
11	0	0
12	2.42	2.42
13	5.09	5.08
14	2.43	2.42
15	0	0
16	2.49	2.47
17	0	0
18	2.48	2.47
19	0	0
20	1.18	2.3
21	1.76	2.17
22	0	0
23	1.76	2.24
24	0	0
25	0	0
26	0	0
27	0.06	0.05
28	5.09	0
IC510(BUFFER)		
1	0	0
2	2.59	2.55
3	0	0
4	2.59	2.56
5	0	0
6	3.24	3.23
7	0	0
8	0.14	0.08
9	0	0
10	0	0
11	0.15	0.09
12	0	0
13	0.15	0.08
14	5.19	5.19
15	0.14	0.09
16	5.25	5.24
17	0.15	0.08
18	5.23	5.23
19	0	0
20	5.25	5.25
IC5A1(FLASH)		
1	0.08	0.16
2	1.82	0.45
3	2.84	0

MODE / PIN NO.	STOP	PLAY
4	2.83	3.12
5	0.69	0.26
6	1.72	0.25
7	1.92	0.9
8	1.7	1.45
9	0	0
10	0	0
11	3.27	3.29
12	3.56	3.55
13	3.29	3.29
14	0	0
15	0.23	0.06
16	0	0
17	0	0
18	0	0.87
19	1.98	2.64
20	2.28	2.18
21	2.13	1.96
22	1.67	2.01
23	1.99	1.72
24	1.93	2.19
25	2.05	1.94
26	0	0
27	0	0
28	0	0
29	1.49	2.03
30	0.16	1.07
31	1.96	1.25
32	0.16	1.1
33	0.99	2.2
34	1.17	1.07
35	0.79	1.82
36	0.15	1.07
37	3.29	3.3
38	1.93	3.09
39	0.16	1.07
40	1.5	2.2
41	0.16	1.07
42	1.21	2.64
43	0.16	1.08
44	1.64	1.48
45	2.05	2.06
46	0	0
47	0	0
48	0.07	0.13
IC710		
1	0	0
2	15.6	15.6
3	15.6	15.6
4	3.59	31.58
5	0	0
6	0	0
7	31.59	31.58
8	15.62	15.62
9	15.62	15.62

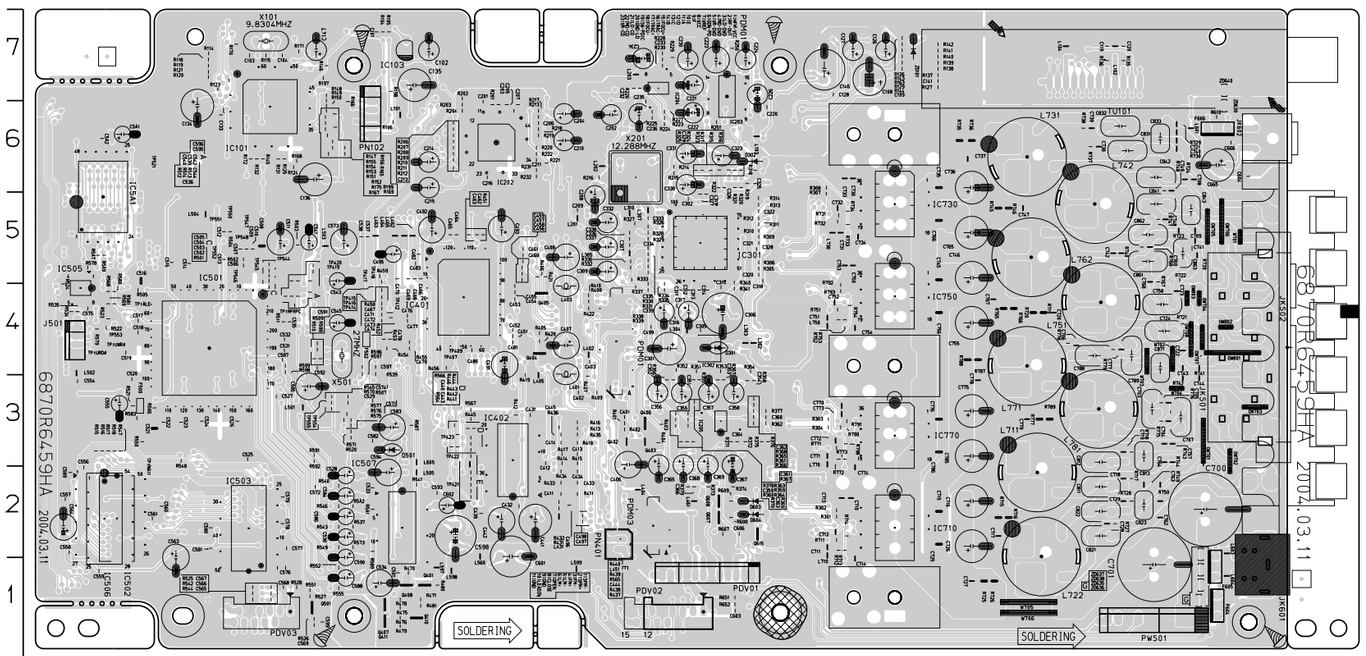
MODE / PIN NO.	STOP	PLAY
10	15.61	15.61
11	15.61	15.61
12	31.59	31.59
13	0	0
14	0	0
15	31.59	31.59
16	15.61	15.61
17	15.61	15.61
18	NC	NC
19	0	0
20	0.02	0.02
21	5.02	5.02
22	5.02	5.02
23	3.25	3.24
24	0	0
25	3.15	3.15
26	3.15	3.15
27	3.15	3.15
28	3.24	3.23
29	1.58	1.57
30	1.58	1.57
31	1.58	1.57
32	1.58	1.57
33	26.32	26.31
34	26.32	26.31
35	31.58	31.57
36	31.58	31.57
IC730		
1	0	0
2	15.6	15.6
3	15.6	15.6
4	31.59	31.58
5	0	0
6	0	0
7	31.59	31.58
8	15.62	15.62
9	15.62	15.62
10	15.61	15.61
11	15.61	15.61
12	31.59	31.59
13	0	0
14	0	0
15	31.59	31.59
16	15.61	15.61
17	15.61	15.61
18	NC	NC
19	0	0
20	0.02	0.02
21	5.02	5.02
22	5.02	5.02
23	3.24	3.23
24	0	0
25	3.15	3.15
26	3.15	3.15
27	3.15	3.15

MODE / PIN NO.	STOP	PLAY
28	3.24	3.23
29	1.58	1.57
30	1.58	1.57
31	1.58	1.57
32	1.58	1.57
33	26.3	26.3
34	26.3	26.3
35	31.58	31.57
36	31.58	31.57
IC750		
1	0	0
2	15.6	15.6
3	15.6	15.6
4	31.59	31.58
5	0	0
6	0	0
7	31.59	31.58
8	15.62	15.62
9	15.62	15.62
10	15.61	15.61
11	15.61	15.61
12	31.59	31.59
13	0	0
14	0	0
15	31.59	31.59
16	15.61	15.61
17	15.61	15.61
18	NC	NC
19	0	0
20	0.03	0.03
21	5.06	5.06
22	5.06	5.06
23	3.24	3.23
24	0	0
25	3.15	3.15
26	3.15	3.15
27	3.15	3.15
28	3.24	3.23
29	1.58	1.57
30	1.58	1.57
31	1.58	1.57
32	1.58	1.57
33	26.3	26.3
34	26.3	26.3
35	31.58	31.57
36	31.58	31.57

SECTION	NO	STOP			PLAY		
		B	E	C	B	E	C
DVD&AMP	Q401	5.2	5.19	0	5.2	5.19	0
	Q402	0	0	0	0	0	0.22
	Q403	5.08	0	0	4.93	0	0
	Q404	5.01	5.08	0	4.96	5.02	0
	Q405	5.01	5.08	0.44	3.32	4.01	1.9
	Q407	0	0	5.2	0	0	0
	Q408	2.85	0	0	2.83	0	0
	Q410	5.2	5.2	0	0	5.2	0
	Q411	0	0	5.2	0	0	5.19

PRINTED CIRCUIT DIAGRAMS

1. DVD & AMP P.C.BOARD



LOCATION GUIDE

C101	E7	C391	H4	C487	G4	C610	F5	C654	A3	C665	D6	C750	J3	C864	J2
C102	E7	C392	H4	C488	G4	C695	F5	C655	B3	C666	D6	C751	J1	C868	B3
C103	E7	C393	I4	C489	G3	C696	F5	C656	A2	C669	D3	C752	J1	C869	E4
C104	C7	C394	I4	C490	G3	C697	G2	C657	A2	C701	N6	C753	J5	C884	D1
C105	E7	C395	H4	C491	G3	C698	G2	C658	A2	C702	N6	C754	J5	C885	D1
C106	H6	C396	H4	C492	G3	C699	H4	C659	A1	C704	N3	C755	L4	C886	D6
C107	H7	C397	H5	C501	E1	C701	G2	C660	B2	C705	N3	C756	K4	C1101	C5
C108	H7	C398	I5	C502	E1	C702	G2	C661	B2	C706	N3	C758	N3	C1103	E3
C109	H7	C399	I5	C503	E1	C703	G2	C662	B2	C707	N3	C759	N3	C1201	F1
C110	H7	C400	I5	C504	E1	C704	G2	C663	B2	C708	N3	C760	N3	C1202	F1
C111	H7	C401	I5	C505	E1	C705	G2	C664	B2	C709	N3	C761	N3	C1203	F1
C112	H7	C402	I5	C506	E1	C706	G2	C665	C1	C710	J2	C762	N3	C1204	F1
C113	H7	C403	I5	C507	E1	C707	G2	C666	C1	C711	J2	C763	N3	C1205	F1
C114	H7	C404	I5	C508	E1	C708	G2	C667	C1	C712	J2	C764	N3	C1206	F1
C115	H7	C405	I5	C509	E1	C709	G2	C668	C1	C713	J2	C765	N3	C1207	F1
C116	H7	C406	I5	C510	E1	C710	G2	C669	C1	C714	J2	C766	N3	C1208	F1
C117	H7	C407	I5	C511	E1	C711	G2	C670	C1	C715	J2	C767	N3	C1209	F1
C118	H7	C408	I5	C512	E1	C712	G2	C671	C1	C716	J2	C768	N3	C1210	F1
C119	H7	C409	I5	C513	E1	C713	G2	C672	C1	C717	J2	C769	N3	C1211	F1
C120	H7	C410	I5	C514	E1	C714	G2	C673	C1	C718	J2	C770	N3	C1212	F1
C121	H7	C411	I5	C515	E1	C715	G2	C674	C1	C719	J2	C771	N3	C1213	F1
C122	H7	C412	I5	C516	E1	C716	G2	C675	C1	C720	J2	C772	N3	C1214	F1
C123	H7	C413	I5	C517	E1	C717	G2	C676	C1	C721	J2	C773	N3	C1215	F1
C124	H7	C414	I5	C518	E1	C718	G2	C677	C1	C722	J2	C774	N3	C1216	F1
C125	H7	C415	I5	C519	E1	C719	G2	C678	C1	C723	J2	C775	N3	C1217	F1
C126	H7	C416	I5	C520	E1	C720	G2	C679	C1	C724	J2	C776	N3	C1218	F1
C127	H7	C417	I5	C521	E1	C721	G2	C680	C1	C725	J2	C777	N3	C1219	F1
C128	H7	C418	I5	C522	E1	C722	G2	C681	C1	C726	J2	C778	N3	C1220	F1
C129	H7	C419	I5	C523	E1	C723	G2	C682	C1	C727	J2	C779	N3	C1221	F1
C130	H7	C420	I5	C524	E1	C724	G2	C683	C1	C728	J2	C780	N3	C1222	F1
C131	H7	C421	I5	C525	E1	C725	G2	C684	C1	C729	J2	C781	N3	C1223	F1
C132	H7	C422	I5	C526	E1	C726	G2	C685	C1	C730	J2	C782	N3	C1224	F1
C133	H7	C423	I5	C527	E1	C727	G2	C686	C1	C731	J2	C783	N3	C1225	F1
C134	H7	C424	I5	C528	E1	C728	G2	C687	C1	C732	J2	C784	N3	C1226	F1
C135	H7	C425	I5	C529	E1	C729	G2	C688	C1	C733	J2	C785	N3	C1227	F1
C136	H7	C426	I5	C530	E1	C730	G2	C689	C1	C734	J2	C786	N3	C1228	F1
C137	H7	C427	I5	C531	E1	C731	G2	C690	C1	C735	J2	C787	N3	C1229	F1
C138	H7	C428	I5	C532	E1	C732	G2	C691	C1	C736	J2	C788	N3	C1230	F1
C139	H7	C429	I5	C533	E1	C733	G2	C692	C1	C737	J2	C789	N3	C1231	F1
C140	H7	C430	I5	C534	E1	C734	G2	C693	C1	C738	J2	C790	N3	C1232	F1
C141	H7	C431	I5	C535	E1	C735	G2	C694	C1	C739	J2	C791	N3	C1233	F1
C142	H7	C432	I5	C536	E1	C736	G2	C695	C1	C740	J2	C792	N3	C1234	F1
C143	H7	C433	I5	C537	E1	C737	G2	C696	C1	C741	J2	C793	N3	C1235	F1
C144	H7	C434	I5	C538	E1	C738	G2	C697	C1	C742	J2	C794	N3	C1236	F1
C145	H7	C435	I5	C539	E1	C739	G2	C698	C1	C743	J2	C795	N3	C1237	F1
C146	H7	C436	I5	C540	E1	C740	G2	C699	C1	C744	J2	C796	N3	C1238	F1
C147	H7	C437	I5	C541	E1	C741	G2	C700	C1	C745	J2	C797	N3	C1239	F1
C148	H7	C438	I5	C542	E1	C742	G2	C701	C1	C746	J2	C798	N3	C1240	F1
C149	H7	C439	I5	C543	E1	C743	G2	C702	C1	C747	J2	C799	N3	C1241	F1
C150	H7	C440	I5	C544	E1	C744	G2	C703	C1	C748	J2	C800	N3	C1242	F1
C151	H7	C441	I5	C545	E1	C745	G2	C704	C1	C749	J2	C801	N3	C1243	F1
C152	H7	C442	I5	C546	E1	C746	G2	C705	C1	C750	J2	C802	N3	C1244	F1
C153	H7	C443	I5	C547	E1	C747	G2	C706	C1	C751	J2	C803	N3	C1245	F1
C154	H7	C444	I5	C548	E1	C748	G2	C707	C1	C752	J2	C804	N3	C1246	F1
C155	H7	C445	I5	C549	E1	C749	G2	C708	C1	C753	J2	C805	N3	C1247	F1
C156	H7	C446	I5	C550	E1	C750	G2	C709	C1	C754	J2	C806	N3	C1248	F1
C157	H7	C447	I5	C551	E1	C751	G2	C710	C1	C755	J2	C807	N3	C1249	F1
C158	H7	C448	I5	C552	E1	C752	G2	C711	C1	C756	J2	C808	N3	C1250	F1
C159	H7	C449	I5	C553	E1	C753	G2	C712	C1	C757	J2	C809	N3	C1251	F1
C160	H7	C450	I5	C554	E1	C754	G2	C713	C1	C758	J2	C810	N3	C1252	F1
C161	H7	C451	I5	C555	E1	C755	G2	C714	C1	C759	J2	C811	N3	C1253	F1
C162	H7	C452	I5	C556	E1	C756	G2	C715	C1	C760	J2	C812	N3	C1254	F1
C163	H7	C453	I5	C557	E1	C757	G2	C716	C1	C761	J2	C813	N3	C1255	F1
C164	H7	C454	I5	C558	E1	C758	G2	C717	C1	C762	J2	C814	N3	C1256	F1
C165	H7	C455	I5	C559	E1	C759	G2	C718	C1	C763	J2	C815	N3	C1257	F1
C166	H7	C456	I5	C560	E1	C760	G2	C719	C1	C764	J2	C816	N3	C1258	F1
C167	H7	C457	I5	C561	E1	C761	G2	C720	C1	C765	J2	C817	N3	C1259	F1
C168	H7	C458	I5	C562	E1	C762	G2	C721	C1	C766	J2	C818	N3	C1260	F1
C169	H7	C459	I5	C563	E1	C763	G2	C722	C1	C767	J2	C819	N3	C1261	F1
C170	H7	C460	I5	C564	E1	C764	G2	C723	C1	C768	J2	C820	N3	C1262	F1
C171	H7	C461	I5	C565	E1	C765	G2	C724	C1	C769	J2	C821	N3	C1263	F1
C172	H7	C462	I5	C566	E1	C766	G2	C725	C1	C770	J2	C822	N3	C1264	F1
C173	H7	C463	I5	C567	E1	C767	G2	C726	C1	C771	J2	C823	N3	C1265	F1
C174	H7	C464	I5	C568	E1	C768	G2	C727	C1	C772	J2	C824	N3	C1266	F1
C175	H7	C465	I5	C569	E1	C769	G2	C728	C1	C773	J2	C825	N3	C1267	F1
C176	H7	C466	I5	C570	E1	C770	G2	C729	C1	C774	J2	C826	N3	C1268	F1
C177	H7	C467	I5	C571	E1	C771	G2	C730	C1	C775	J2	C827	N3	C1269	F1
C178	H7	C468	I5	C572	E1	C772	G2	C731	C1	C776	J2	C828	N3	C1270	F1
C179	H7	C469	I5	C573	E1	C773	G2	C732	C1	C777	J2	C829	N3	C1271	F1
C180	H7	C470	I5	C574	E1	C774	G2	C733	C1	C778	J2	C830	N3	C1272	F1
C181	H7	C471	I5	C575	E1	C775	G2	C734	C1	C779	J2	C831	N3	C1273	F1
C182	H7	C472	I5	C576	E1	C776	G2	C735	C1	C780	J2	C832	N3	C1274	F1
C183	H7	C473	I5	C577	E1	C777	G2	C736	C1	C781	J2	C833	N3	C1275	F1
C184	H7	C474	I5	C578	E1	C778	G2	C737	C1	C782	J2	C834	N3	C1276	F1
C185	H7	C475	I5	C579	E1	C779	G2	C738	C1	C783	J2	C835	N3	C1277	F1
C186	H7	C476	I5	C580	E1	C780	G2	C739	C1	C784	J2	C836	N3	C1278	F1
C187	H7	C477	I5	C581	E1	C781	G2	C740	C1	C785	J2	C837	N3	C1279	F1
C188	H7	C478	I5	C582	E1	C782	G2	C741	C1	C786	J2	C838	N3	C1280	F1
C189	H7	C479	I5	C583	E1	C783	G2	C742	C1	C787	J2	C839	N3	C1281	F1
C190	H7	C480	I5	C584	E1	C784	G2	C743	C1	C788	J2	C840	N3	C1282	F1
C191	H7	C481	I5	C585	E1	C785	G2	C744	C1	C789	J2	C841	N3	C1283	F1
C192	H7	C482	I5	C586	E1	C786	G2	C745	C1	C790	J2	C842	N3	C1284	F1
C193	H7	C483	I5	C587	E1	C787	G2	C746	C1	C791	J2	C843	N3	C1285	F1
C194	H7	C484	I5	C588	E1	C788	G2	C747	C1	C792	J2	C844	N3	C1286	F1
C195	H7	C485	I5	C589	E1	C789	G2	C748	C1	C793	J2	C845	N3	C1287	F1
C196	H7	C486	I5	C590	E1	C790	G2	C749	C1	C794	J2	C846	N3	C1288	F1
C197	H7	C487	I5	C591	E1	C791	G2	C750	C1	C795	J2	C847	N3	C1289	F1
C198	H7	C488	I5	C592	E1	C792	G2	C751	C1	C796	J2	C848	N3	C1290	F1
C199	H7	C489	I5	C593	E1	C793	G2	C752	C1	C797	J2	C849	N3	C1291	F1
C200	H7	C490	I5	C594	E1	C794	G2	C753	C1	C798	J2	C850	N3	C1292	F1
C201	H7	C491	I5	C595	E1	C795	G2	C754	C1	C799	J2	C851	N3	C1293	F1
C202	H7	C492	I5	C596	E1	C796	G2	C755	C1	C800	J2	C852	N3	C1294	F1
C203	H7	C493	I5	C597	E1	C797	G2	C756	C1	C801	J2	C853	N3	C1295	F1
C204	H7	C494	I5	C598	E1	C798	G2	C757	C1	C802	J2	C854	N3	C1296	F1
C205	H7	C495	I5	C599	E1	C799	G2	C758	C1	C803	J2	C855	N3	C1297	F1
C206	H7	C496	I5	C600	E1	C800	G2	C759	C1	C804	J2	C856	N3	C1298	F1
C207	H7	C497	I5	C601	E1	C801	G2	C760	C1	C805	J2	C857	N3	C1299	F1
C208	H7	C498	I5	C602	E1	C802	G2	C761	C1	C806	J2	C858	N3	C1300	F1
C209	H7	C499	I5	C603	E1	C803	G2	C762	C1	C807	J2	C859	N3	C1301	F1
C210	H7	C500	I5	C604	E1	C804	G2	C763	C1	C808	J2	C860	N3	C1302	F1
C211	H7	C501	I5	C605	E1	C805	G2	C764	C1	C809	J2	C861	N3	C1303	F1
C212	H7	C502	I5	C606	E1	C806	G2	C765	C1	C810	J2	C862	N3	C1304	F1
C213	H7	C503	I5	C607	E1	C807	G2	C766	C1	C811	J2	C863	N3	C1305	F1
C214	H7	C504	I5	C608	E1	C808	G2	C767	C1	C812	J2	C864	N3	C1306	F1
C215	H7	C505	I5	C609	E1	C809	G2	C768	C1	C813	J2	C865	N3	C1307	F1
C216	H7	C506	I5	C610	E1	C810	G2	C769	C1	C814	J2	C866	N3	C1308	F1
C217	H7	C507	I5	C611	E1	C811	G2	C770	C1	C815	J2	C867	N3	C1309	F1
C218	H7	C508	I5	C612	E1	C812	G2	C771	C1	C816	J2	C868	N3	C1310	F1
C219	H7	C509	I5	C613	E1	C813	G2	C772	C1	C817	J2	C869	N3	C1311	F1
C220	H7	C510	I5	C614	E1	C814	G2	C773	C1	C818	J2	C870	N3	C1312	F1
C221	H7	C511	I5	C615	E1	C815	G2	C774	C1	C819	J2	C871	N3	C1313	F1
C222	H7	C512	I5	C616	E1	C816	G2	C775	C1	C820	J2	C872	N3	C1314	F1
C223	H7	C513	I5	C617	E1	C817	G2	C776	C1	C821	J2	C873	N3	C1315	F1
C224	H7	C514	I5	C618	E1	C818	G2	C777	C1	C822	J2	C874	N3	C1316	F1
C225	H7	C515	I5	C619	E1	C819	G2	C778	C1	C823	J2	C875	N3	C1317	F1
C226	H7	C516	I5	C620	E1	C820	G2	C779	C1	C824	J2	C876	N3	C1318	F1
C227	H7	C517	I5	C621	E1	C821	G2	C780	C1	C825	J2	C877	N3	C1319	F1
C228	H7	C518	I5	C622	E1	C822	G2	C781	C1	C826	J2	C878	N3	C1320	F1
C229	H7	C519	I5	C623	E1	C823	G2	C782	C1	C827	J2	C879	N3	C1321	F1
C230	H7	C520	I5	C624	E1	C824	G2	C783	C1	C828	J2	C880	N3	C1322	F1
C231	H7	C521	I5	C625	E1	C825	G2	C784	C1	C829	J2	C881	N3	C1323	F1
C232	H7	C522	I5	C626	E1	C826	G2	C785	C1	C830	J2	C882	N3	C1324	F1
C233	H7	C523	I5	C627	E1	C827	G2	C786	C1	C831	J2	C883	N3	C1325	F1
C234	H7	C524	I5	C628	E1	C828	G2	C787	C1	C832	J2	C884	N3	C1326	F1
C235	H7	C525	I5	C629	E1	C829	G2	C788	C1	C833	J2	C885	N3	C1327	F1
C236	H7	C526	I5	C630	E1	C830	G2	C789	C1	C834	J2	C886	N3	C1328	F1
C237	H7	C527	I5	C631	E1	C831	G2	C790	C1	C835	J2	C887	N3	C1329	F1
C238	H7	C528	I5	C632	E1	C832	G2	C791	C1	C836	J2	C888	N3	C1330	F1
C239	H7	C529	I5	C633	E1	C833	G2	C792	C1	C837	J2	C889	N3	C1331	F1
C240	H7	C530	I5	C634	E1	C834	G2	C793	C1	C838	J2	C890	N3	C1332	F1
C241	H7	C531	I5	C635	E1	C835	G2	C794	C1	C839	J2	C891	N3	C1333	F1
C242	H7	C532	I5	C636	E1	C836	G2	C795	C1	C840	J2	C892	N3	C1334	F1
C243	H7	C533	I5	C637	E1	C837	G2	C796	C1	C841	J2	C893	N3	C1335	F1
C244	H7	C534	I5	C638	E1	C838	G2	C797	C1	C842	J2	C894	N3	C1336	F1
C245	H7	C535	I5	C639	E1	C839	G2	C798	C1	C843	J2	C895	N3	C1337	F1
C246	H7	C536	I5	C640	E1	C840	G2	C799	C1	C844	J2	C896	N3	C1338	F1
C247	H7	C537	I5	C641	E1	C841	G2	C800	C1	C845	J2	C897	N3	C1339	F1
C248	H7	C538	I5	C642	E1	C842	G2	C801	C1	C846	J2	C898	N3	C1340	F1
C249	H7	C539	I5	C643	E1	C843	G2	C802	C1	C847	J2	C899	N3	C1341	F1
C250	H7	C540	I5	C644	E1	C844	G2	C803	C1	C848	J2	C900	N3	C1342	F1
C251	H7	C541	I5	C645	E1	C845	G2	C804	C1	C849	J2	C901	N3	C1343	F1
C252	H7	C542	I5	C646	E1	C846	G2	C805	C1	C850	J2	C902	N3	C1344	F1
C253	H7	C543	I5	C647	E1	C847	G2	C806	C1	C851	J2	C903	N3	C1345	F1
C254	H7	C544	I5	C648	E1	C848	G2	C807	C1	C852	J2	C904	N3	C1346	F1
C255	H7	C545	I5	C649	E1	C849	G2	C808	C1	C853	J2	C905	N3	C1347	F1
C256	H7	C546	I5	C650	E1	C850	G2	C809	C1	C854	J2	C906	N3	C1348	F1
C257	H7	C547	I5	C651	E1	C851	G2	C810	C1	C855	J2	C907	N3	C1349	F1
C258	H7	C548	I5	C652	E1	C852	G2	C811	C1	C856	J2	C908	N3	C1350	F1
C259	H7	C549	I5	C653	E1	C853	G2	C812	C1	C857	J2	C909	N3	C1351	F1
C260	H7	C550	I5	C654	E1	C854	G2	C813	C1	C858	J2	C910	N3	C1352	F1
C261	H7	C551	I5	C655	E1	C855	G2	C814	C1	C859	J2	C911	N3	C1353	F1
C262	H7	C552	I5	C656	E1	C856	G2	C815	C1	C860	J2	C912	N3	C1354	F1
C263	H7	C553	I5	C657	E1	C857	G2	C816	C1	C861	J2	C913	N3	C1355	F1
C264	H7	C554	I5	C658	E1	C858	G2	C817	C1	C862	J2	C914	N3	C1356	F1
C265	H7	C555	I5	C659	E1	C859	G2	C818	C1	C863	J2	C915	N3	C1357	F1
C266	H7	C556	I5	C660	E1	C860	G2	C819	C1	C864	J2	C916	N3	C1358	F1
C267	H7	C557	I5	C661	E1	C861	G2	C820	C1	C865	J2	C917	N3	C1359	F1
C268	H7	C558	I5	C662	E1	C862	G2	C821	C1	C866	J2	C918	N3	C1360	F1
C269	H7	C559	I5	C663	E1	C863	G2	C822	C1	C867	J2	C919	N3	C1361	F1
C270	H7	C560	I5	C664	E1	C864	G2	C823	C1	C868	J2	C920	N3	C1362	F1
C271	H7	C561	I5	C665	E1	C865	G2	C824	C1	C869	J2	C921	N3	C1363	F1
C272	H7	C562	I5	C666	E1	C866	G2	C825	C1	C870	J2	C922	N3	C1364	F1
C273	H7	C563	I5	C667	E1	C867	G2	C826	C1	C871	J2	C923	N3	C1365	F1
C274	H7	C564	I5	C668	E1	C868	G2	C827	C1	C872	J2	C924	N3	C1366	F1
C275	H7	C565	I5	C669	E1	C869	G2	C828	C1	C873	J2	C925	N3	C1367	F1
C276	H7	C566	I5	C670	E1	C870	G2	C829	C1	C874	J2	C926	N3	C1368	F1
C277	H7	C567	I5	C671	E1	C871	G2	C830	C1	C875	J2	C927	N3	C1369	F1
C278	H7	C568	I5	C672	E1	C872	G2	C831	C1	C876	J2	C928	N3	C1370	F1
C279	H7	C569	I5	C673	E1	C873	G2	C832	C1	C877	J2	C929	N3	C1371	F1
C280	H7	C570	I5	C674	E1	C874	G2	C833	C1	C878	J2	C930	N3	C1372	F1
C281	H7	C571	I5	C675	E1	C875	G2	C834	C1	C879	J2	C931	N3	C1373	F1
C282	H7	C572	I5	C676	E1	C876	G2	C835	C1	C880	J2	C932	N3	C1374	F1
C283	H7	C573	I5	C677	E1	C877	G2	C836	C1	C881	J2	C933	N3	C1375	F1
C284	H7	C574	I5	C678	E1	C878	G2	C837	C1	C882	J2	C934	N3	C1376	F1
C285	H7	C575	I5	C679	E1	C879	G2	C838	C1	C883	J2	C935	N3	C1377	F1
C286	H7	C576	I5	C680	E1	C880	G2	C839	C1	C884	J2	C936	N3	C1378	F1
C287	H7	C577	I5	C681	E1	C881	G2	C840	C1	C885	J2	C937	N3	C1379	F1
C288	H7	C578	I5	C682	E1	C882	G2	C841	C1	C886	J2	C938	N3	C1380	F1
C289	H7	C579	I5	C683	E1	C883	G2	C842	C1	C887	J2	C939	N3	C1381	F1
C290	H7	C580	I5	C684	E1	C884	G2	C843	C1	C888	J2	C940	N3	C1382	F1
C291	H7	C581	I5	C685	E1	C885	G2	C844	C1	C889	J2	C941	N3	C1383	F1
C292	H7	C582	I5	C686	E1	C886	G2	C845	C1	C890	J2	C942	N3	C1384	F1
C293	H7	C583	I5	C687	E1	C887	G2	C846	C1	C891	J2	C943	N3	C1385	F1
C294	H7	C584	I5	C688	E1	C888	G2	C847	C1	C892	J2	C944	N3	C1386	F1
C295	H7	C585	I5	C689	E1	C889	G2	C848	C1	C893	J2	C945	N3	C1387	F1
C296	H7	C586	I5	C690	E1	C890	G2	C849	C1	C894	J2	C946	N3	C1388	F1
C297	H7	C587	I5	C691	E1	C891	G2	C850	C1	C895	J2	C947	N3	C1389	F1
C298	H7	C588	I5	C692	E1	C892	G2	C851	C1	C896	J2	C948	N3	C1390	F1
C299	H7	C589	I5	C693	E1	C893	G2	C852	C1	C897	J2	C949	N3	C1391	F1
C300	H7	C590	I5	C694	E1	C894	G2	C853	C1	C898	J2	C950	N3	C1392	F1
C301	H7	C591	I5	C695	E1	C895	G2	C854	C1	C899	J2	C951	N3	C1393	F1
C302	H7	C592	I5	C696	E1	C896	G2	C855	C1	C900	J2	C952	N3	C1394	F1
C303	H7	C593	I5	C697	E1	C897	G2	C856	C1	C901	J2	C953	N3	C1395	F1
C304	H7	C594	I5	C698	E1	C898	G2	C857	C1	C902	J2	C954	N3	C1396	F1
C305	H7	C595	I5	C699	E1	C899	G2	C858	C1	C903	J2	C955	N3	C1397	F1
C306	H7	C596	I5	C700	E1	C900	G2	C859	C1	C904	J2	C956	N3	C1398	F1
C307	H7	C597	I5	C701	E1	C901	G2	C860	C1	C905	J2	C957	N3	C1399	F1
C308	H7	C598	I5	C702	E1	C902	G2	C861	C1	C906	J2	C958	N3	C1400	F1
C309	H7	C599	I5	C703	E1	C903	G2	C862	C1	C907	J2	C959	N3	C1401	F1
C310	H7	C600	I5	C704	E1	C904	G2	C863	C1	C908	J2	C960	N3	C1402	F1
C311	H7	C601	I5	C705	E1	C905	G2	C864	C1	C909	J2	C961	N3	C1403	F1
C312	H7	C602	I5	C706	E1	C906	G2	C865	C1	C910	J2	C962	N3	C1404	F1
C313	H7	C603	I5	C707	E1	C907	G2	C866	C1	C911	J2	C963	N3	C1405	F1
C314	H7	C604	I5	C708	E1	C908	G2	C867	C1	C912	J2	C964	N3	C1406	F1
C315	H7	C605	I5	C709	E1	C909	G2	C868	C1	C913	J2	C965	N3	C1407	F1
C316	H7	C606	I5	C710	E1	C910	G2	C869	C1	C914	J2	C966	N3	C1408	F1
C317	H7	C607	I5	C711	E1	C911	G2	C870	C1	C915	J2	C967	N3	C1409	F1
C318	H7	C608	I5	C712	E1	C912	G2	C871	C1	C916	J2	C968	N3	C1410	F1
C319	H7	C609	I5	C713	E1	C913	G2	C872	C1	C917	J2	C969	N3	C1411	F1
C320	H7	C610	I5	C714	E1	C914	G2	C873	C1	C918	J2	C970	N3	C1412	F1
C321	H7	C611	I5	C715	E1	C915	G2	C874	C1	C919	J2	C971	N3	C1413	F1
C322	H7	C612	I5	C716	E1	C916	G2	C875	C1	C920	J2	C972	N3	C1414	F1
C323	H7	C613	I5	C717	E1	C917	G2	C876	C1	C921	J2	C973	N3	C1415	F1
C324	H7	C614	I5	C718	E1	C918	G2	C877	C1	C922	J2	C974	N3	C1416	F1
C325	H7	C615	I5	C719	E1	C919	G2	C878	C1	C923	J2	C975	N3	C1417	F1
C326	H7	C616	I5	C720	E1	C920	G2	C879	C1	C924	J2	C976	N3	C1418	F1
C327	H7	C617	I5	C721	E1	C921	G2	C880	C1	C925	J2	C977	N3	C1419	F1
C328	H7	C618	I5	C722	E1	C922	G2	C881	C1	C926	J2	C978	N3	C1420	F1
C329	H7	C619	I5	C723	E1	C923	G2	C882	C1	C927	J2	C979	N3	C1421	F1
C330	H7	C620	I5	C724	E1	C924	G2	C883	C1	C928	J2	C980	N3	C1422	F1
C331	H7	C621	I5	C725	E1	C925	G2	C884	C1	C929	J2	C981	N3	C1423	F1
C332	H7	C622	I5	C726	E1	C926	G2	C885	C1	C930	J2	C982	N3	C1424	F1
C333	H7	C623	I5	C727	E1	C927	G2	C886	C1	C931	J2	C983	N3	C1425	F1
C334	H7	C624	I5	C728	E1	C928	G2	C887	C1	C932	J2	C984	N3	C1426	F1
C335	H7

MEMO

MEMO

SECTION 4 MECHANISM OF VCR PART(D-37)

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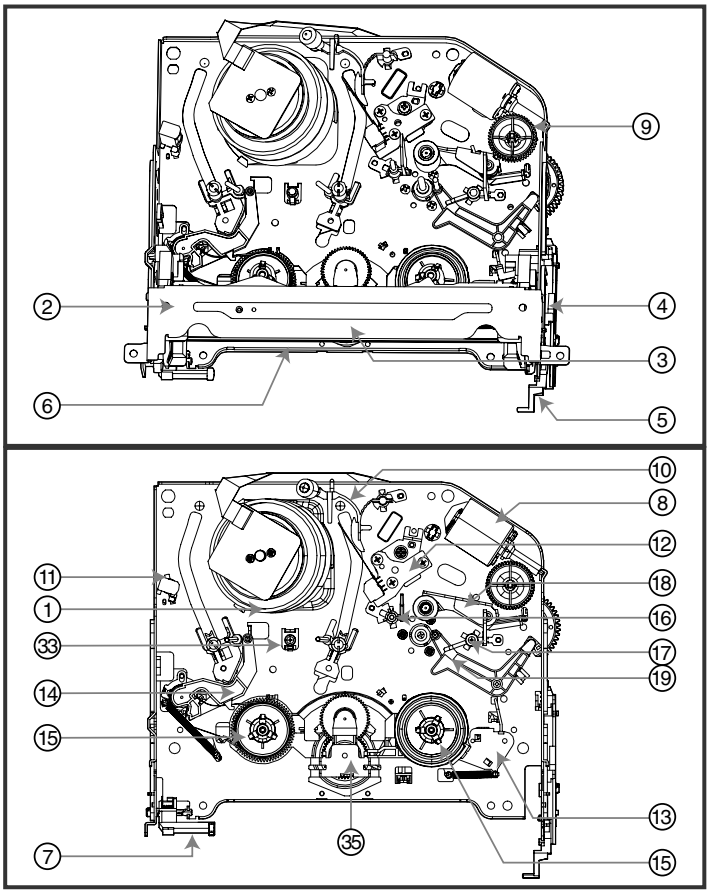
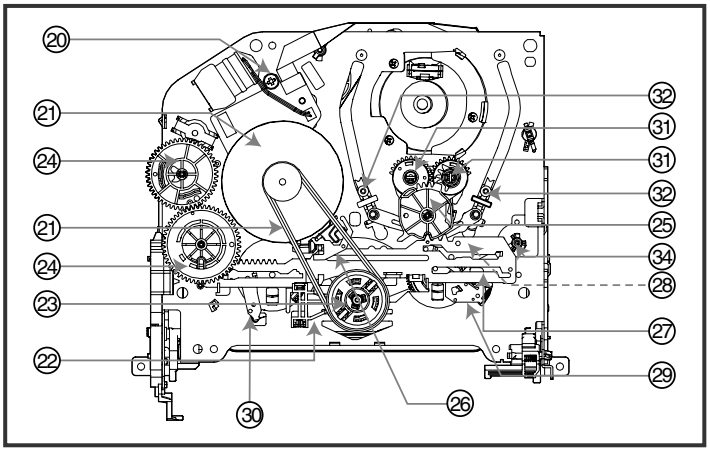
POSITION DRAWING OF DECK MECHANISM PARTS

• Top View



• Bottom View



Order Of Dis-assembled / Parts firstly Disassembled		Part	Fixing Type	Ref. Drawings	Position
	1	Drum Assembly	3 screws	A-1	T
	2	Plate Top	2 hooks	A-2	T
2	3	Holder Assembly CST	6 chasses	A-2	T
2,3	4	Gear Assembly Rack F/L	1 hook	A-2	T
2,3,4	5	Opener Door	Chassis Hole	A-2	T
2,3,4,5	6	Arm Assembly F/L	Chassis Hole	A-2	T
	7	Lever Assembly S/W	Chassis Hole, 1 hook	A-2	T
	8	Motor Assembly L/D	1 screw	A-3	T
	9	Gear Wheel	2 hooks	A-3	T
	10	Arm Assembly Cleaner	Chassis Embossing	A-3	T
	11	Head F/E	Chassis Embossing	A-3	T
	12	Base Assembly A/C Head	1 screw	A-3	T
2,3	13	Brake Assembly T	1 hook	A-4	T
2,3	14	Arm Assembly Tension	1 hook	A-4	T
2,3,13,14	15	Reel S / Reel T	Shaft	A-4	T
	16	Base Assembly P4	Chassis Embossing	A-5	T
	17	Opener Lid	Chassis Embossing	A-5	T
17	18	Arm Assembly Pinch	Shaft	A-5	T
17	19	Arm T/up	1 hook	A-5	T
	20	Supporter, capstan	Chassis Hole	A-6	B
17,18	21	Belt Capstan/Motor Capstan	3 screws	A-6	B
	22	Lever F/R	Locking Tab	A-6	B
21, 22	23	Clutch Assembly D37	Washer	A-6	B
	24	Gear Drive/Gear Cam	Washer/Hook	A-7	B
	25	Gear Sector	Hook	A-7	B
21	26	Brake Assembly Capstan	Chassis Hole	A-7	B
21,22,23, 24,2526	27	Plate Slider	Chassis Guide	A-7	B
21,22,23, 24,2526,27	28	Lever Tension	1 Hook	A7	B
21,22,23, 24,2526,27	29	Lever Spring	1 Hook	A-7	B
21,22,23, 24,2526,27	30	Lever Brake	1 Hook	A-7	B
25	31	Gear Assembly P2/ Gear Assembly P3	Bass	A-8	B
2, 3, 14, 25, 31	32	Base Assembly P2 /Base Assembly P3	6 Chasses	A-8	B
25, 31	33	Base Loading	3 Hooks	A-8	B
2,3,14	34	Base Tension	Chassis Embossing	A-9	T
	35	Arm Assembly Idler Jog	Locking Tab	A-9	T

T:Top, B:Bottom

NOTE : Assembly order is a reverse of disassembly order.

(1) For assembly, check the assembly mode is accurate.
(2) Parts firstly disassembled indicate parts firstly disassembled in disassembly of related parts.

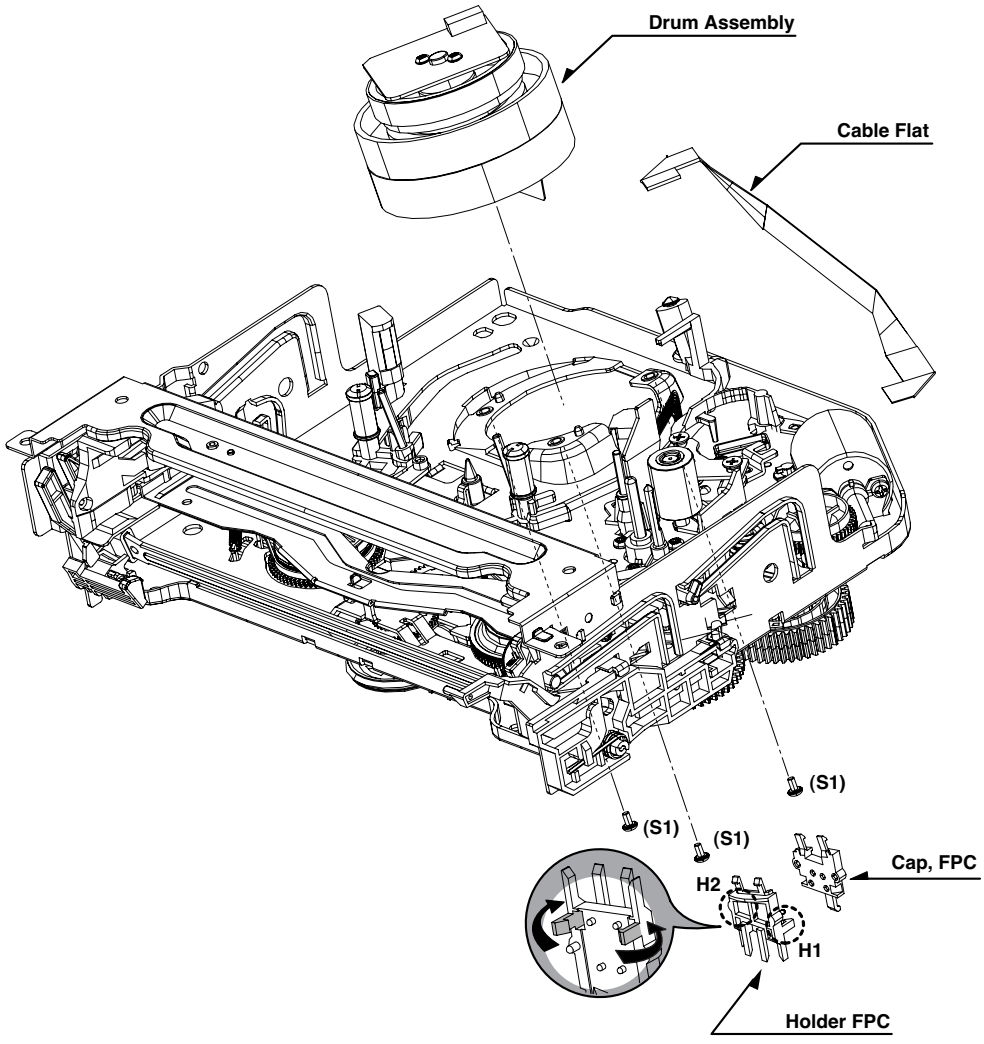
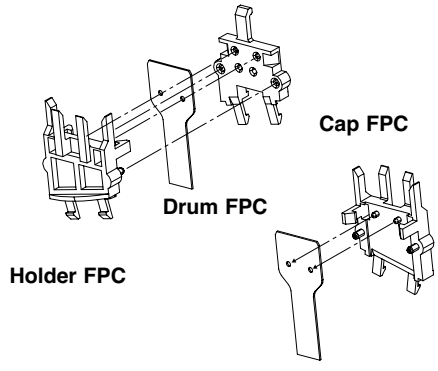


Fig. A-1

1. Disassembly of Drum Assembly (Figure A-1)

1) Separate cable flat from the Drum FPC and the Capstan Motor.
2) Release 3 screws (S1) on the bottom side of the chassis, and separate the drum assembly.
3) Release the hooks (H1, H2) and separate both the holder FPC and the Cap FPC (disassemble if necessary).

Cautions in assembly of FPC



Assembly shape seen in the reverse direction

DISASSEMBLY AND ASSEMBLY OF DECK MECHANISM

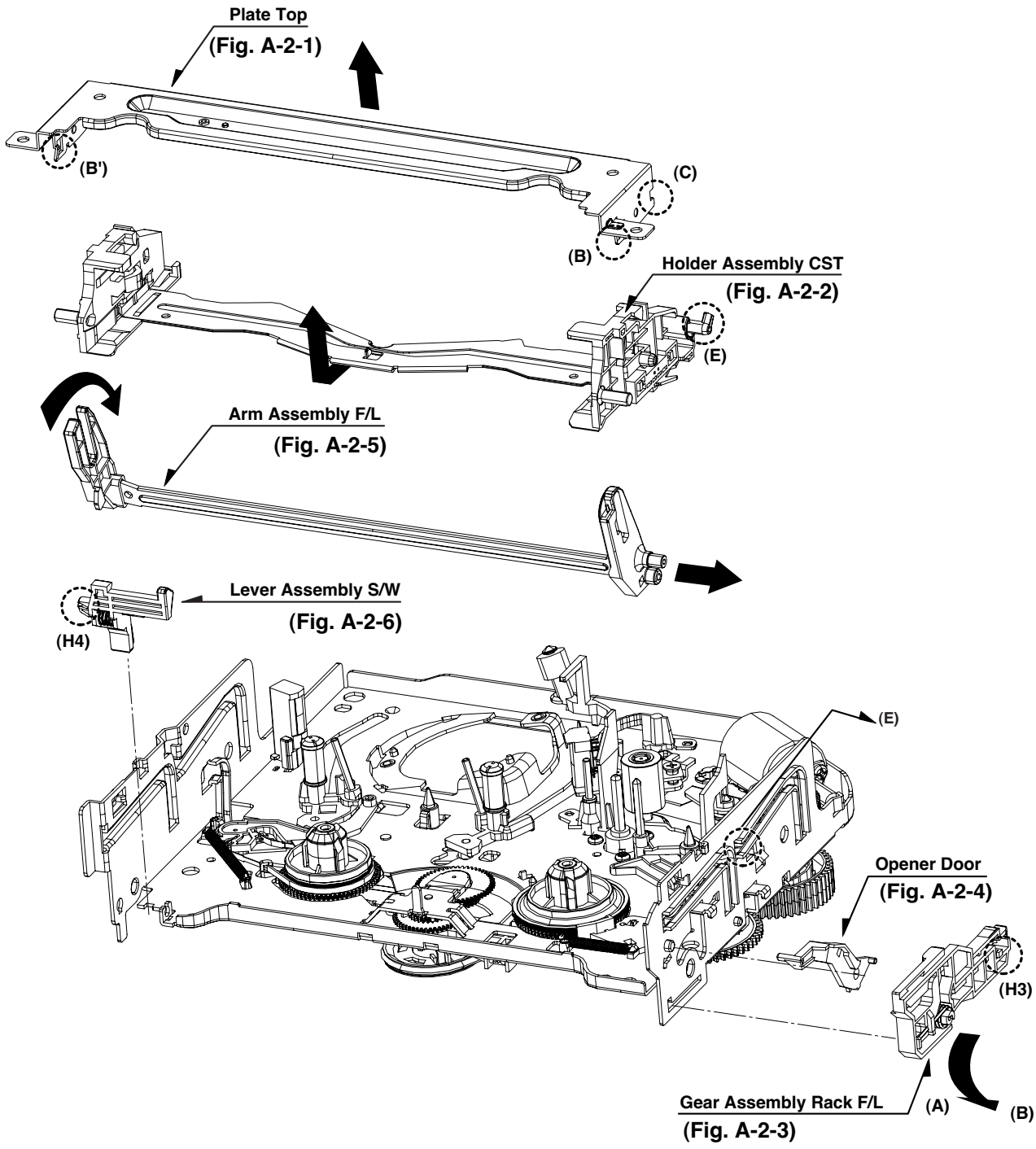


Fig. A-2

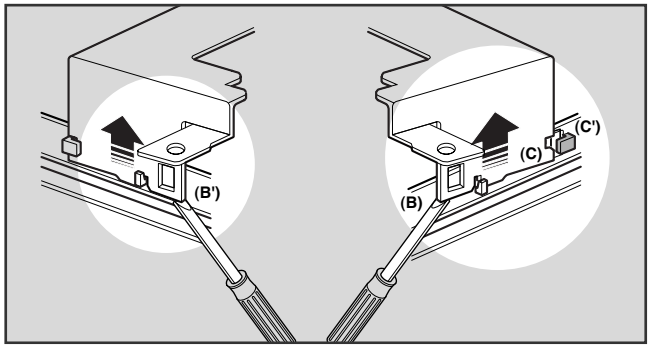
DISASSEMBLY AND ASSEMBLY OF DECK MECHANISM

2. Disassembly of Plate Top (Fig. A-2-1)

1) Separate the right part while leaning back the (B) part of the plate top toward the arrow direction.
2) Separate the left part while leaning back the (B') part of the plate top toward the arrow direction.
(Tool used: Tool such as (-) driver, auger, etc with pointed or flat end)

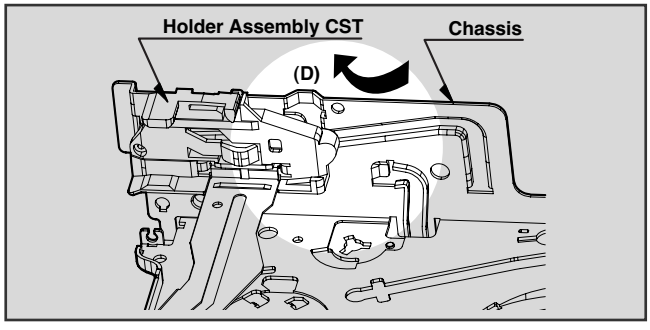
CAUTIONS

Assemble while pressing the (C), (C') part after corresponding them as in drawing.



3. Holder Assembly CST (Fig. A-2-2)

1) Firstly separate the left part from the groove on the (D) part of chassis while moving the holder assembly CST toward the arrow direction.



2) Separate the right part from each groove of chassis

CAUTIONS

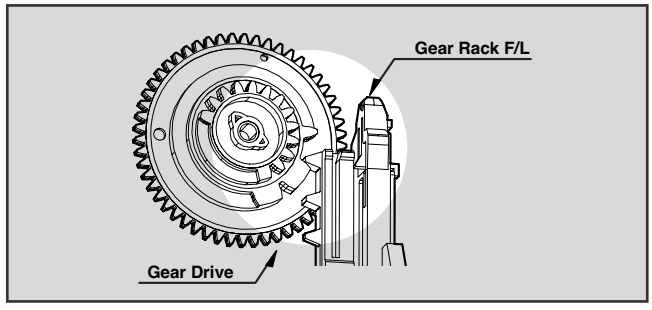
Assemble by inserting the left part after firstly inserting the (E) part of the holder assembly CST into the groove on the (E') part of chassis.

4. Disassembly of Gear Assembly Rack F/L (Fig. A-2-3)

1) Separate the hook (H3) while leaning ahead the hook (3) after moving the gear assembly rack F/L toward the arrow (A) direction.
2) Separate the gear assembly rack F/L toward the arrow (B) direction.

CAUTIONS

For the assembly, correspond the gear part of gear assembly rack F/L to the gear drive.



5. Opener Door (Fig. A-2-4)

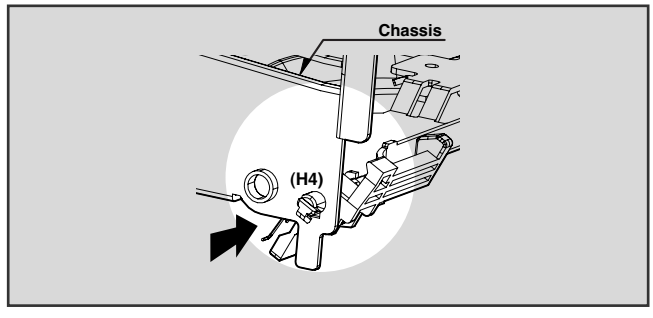
1) Separate the opener door ahead from the guide hole of chassis while turning it clockwise.

6. Arm Assembly F/L (Fig. A-2-5)

1) Firstly separate the left part of the arm assembly F/L from the groove of chassis while pushing the arm assembly F/L toward the arrow direction.
2) Separate the right part from the groove of chassis.).

7. Lever Assembly S/W (Fig. A-2-6)

1) Separate the lever assembly S/W while pushing it toward the arrow direction after removing the hook (4) on the left side of chassis.



DISASSEMBLY AND ASSEMBLY OF DECK MECHANISM

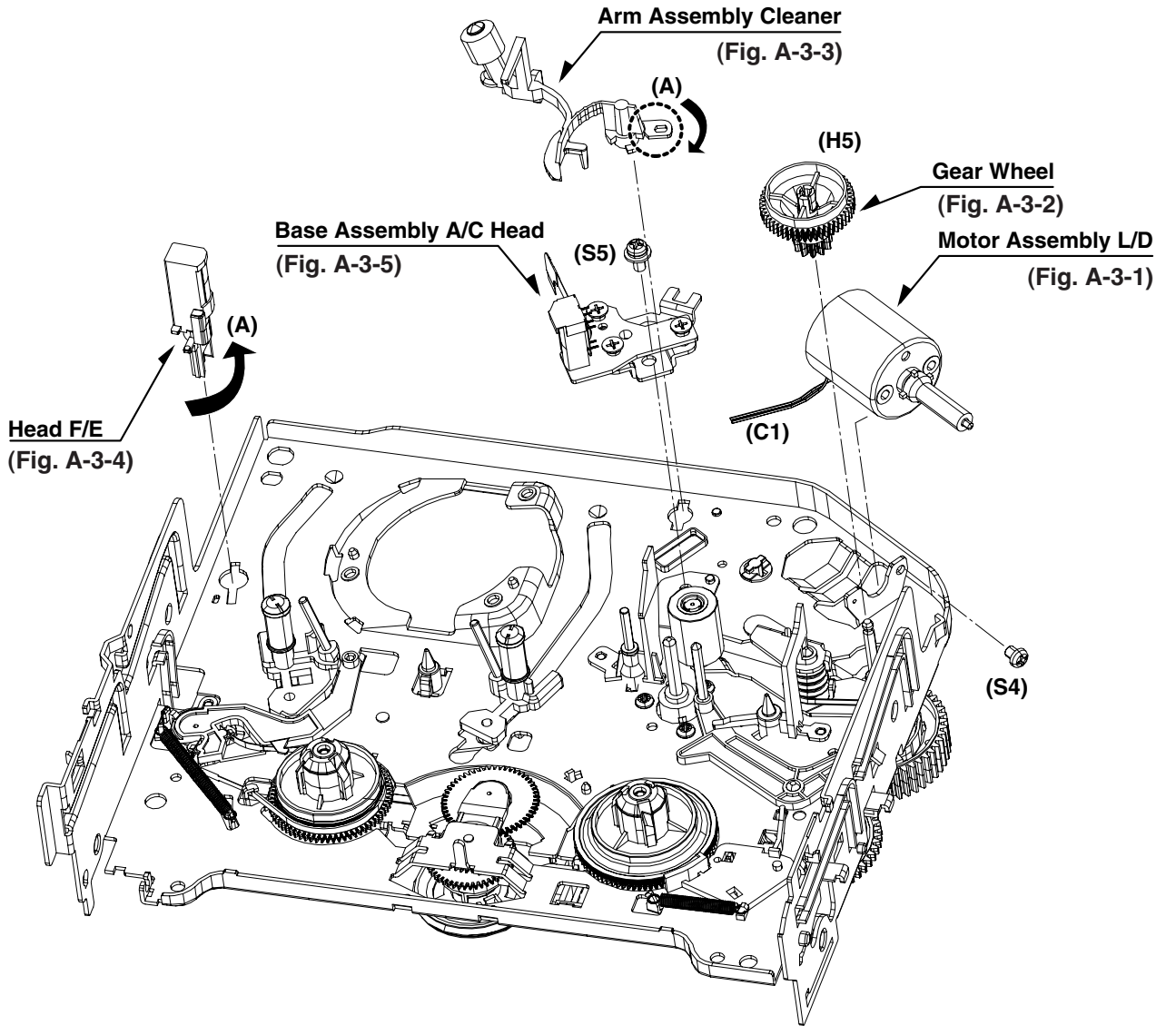


Fig. A-3

8. Motor Assembly L/D (Fig. A-3-1)

1) Take the connector (C1) connected to the Capstan motor PCB out.
2) Remove a screw (S4) of the chassis (S4) and step backward, and disassemble it while holding it up.

9. Gear Wheel (Fig. A-3-2)

1) Release the hook (H5) of the gear wheel and disassemble it upward.

10. Arm Assembly Cleaner (Fig. A-3-3)

1) Separate the (A) part of Fig. A-3-1 from the embossing of chassis, and hold it up while turning it anti-clockwise.

11. Head F/E (Fig. A-3-4)

1) Separate the (A) part of the head F/E from the embossing of chassis, and hold it up while turning it anti-clockwise.

12. Base Assembly A/C Head (Fig. A-3-5)

1) Release a screw (S5) and disassemble while holding it up.

DISASSEMBLY AND ASSEMBLY OF DECK MECHANISM

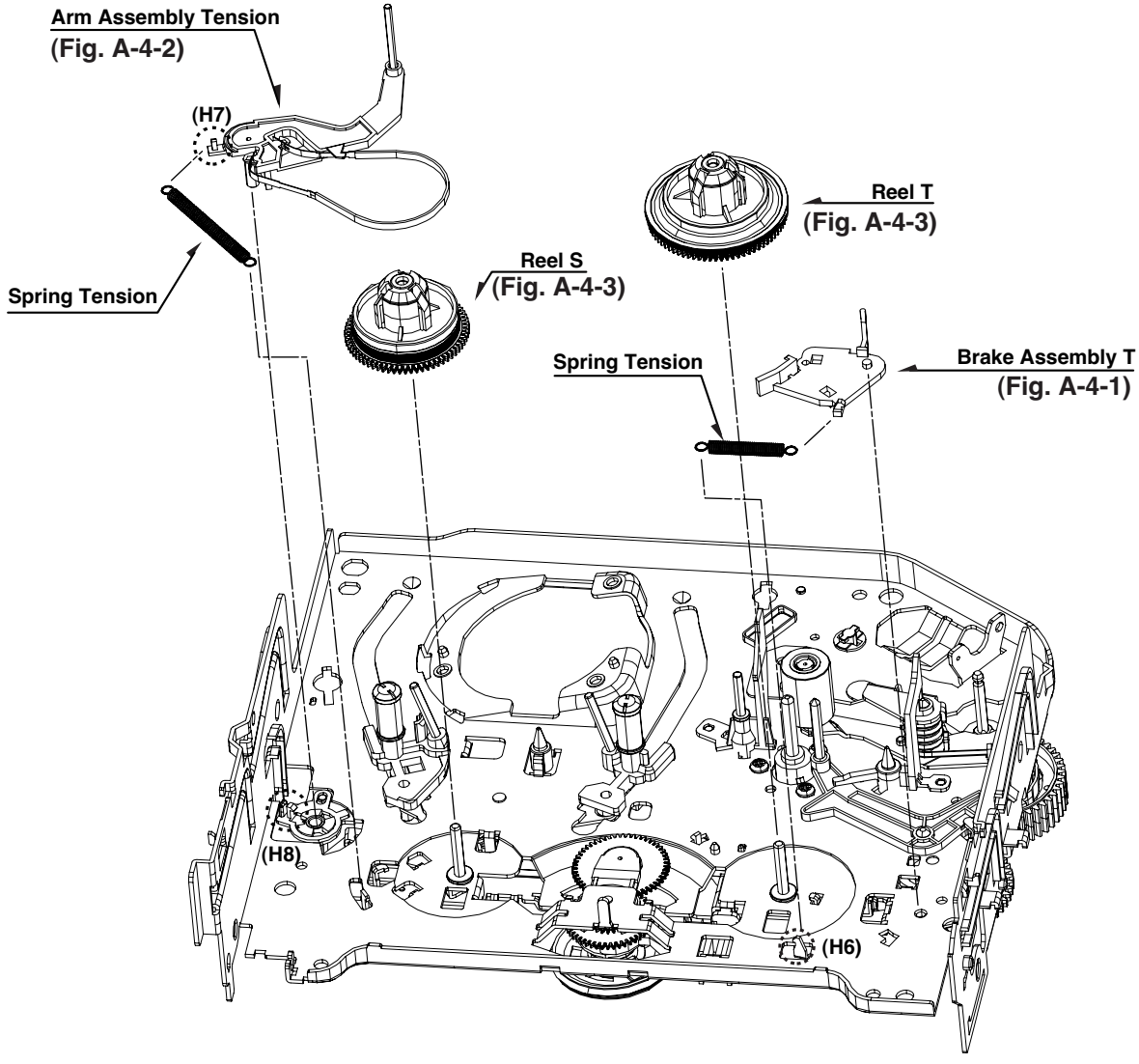


Fig. A-4

13. Brake Assembly T (Fig. A-4-1)

1) Release the spring tension from the lever spring hook (H6).
2) Disassemble the brake assembly T while holding it upward.

14. Arm Assembly Tension (Fig. A-4-2)

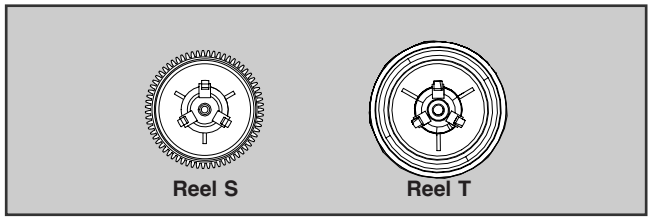
1) Release the spring tension the hook (H7) from the arm assembly tension.
2) After releasing the hook (H8) of the base tension, separate it while holding it up.

CAUTIONS

Spring used for both brake assembly T and arm assembly tension is used (2EA used).

15. Reel S/Reel T (Fig. A-4-3)

1) Disassemble the reel S/ reel T while holding it up (comparison between Reel S and Reel T)



DISASSEMBLY AND ASSEMBLY OF DECK MECHANISM

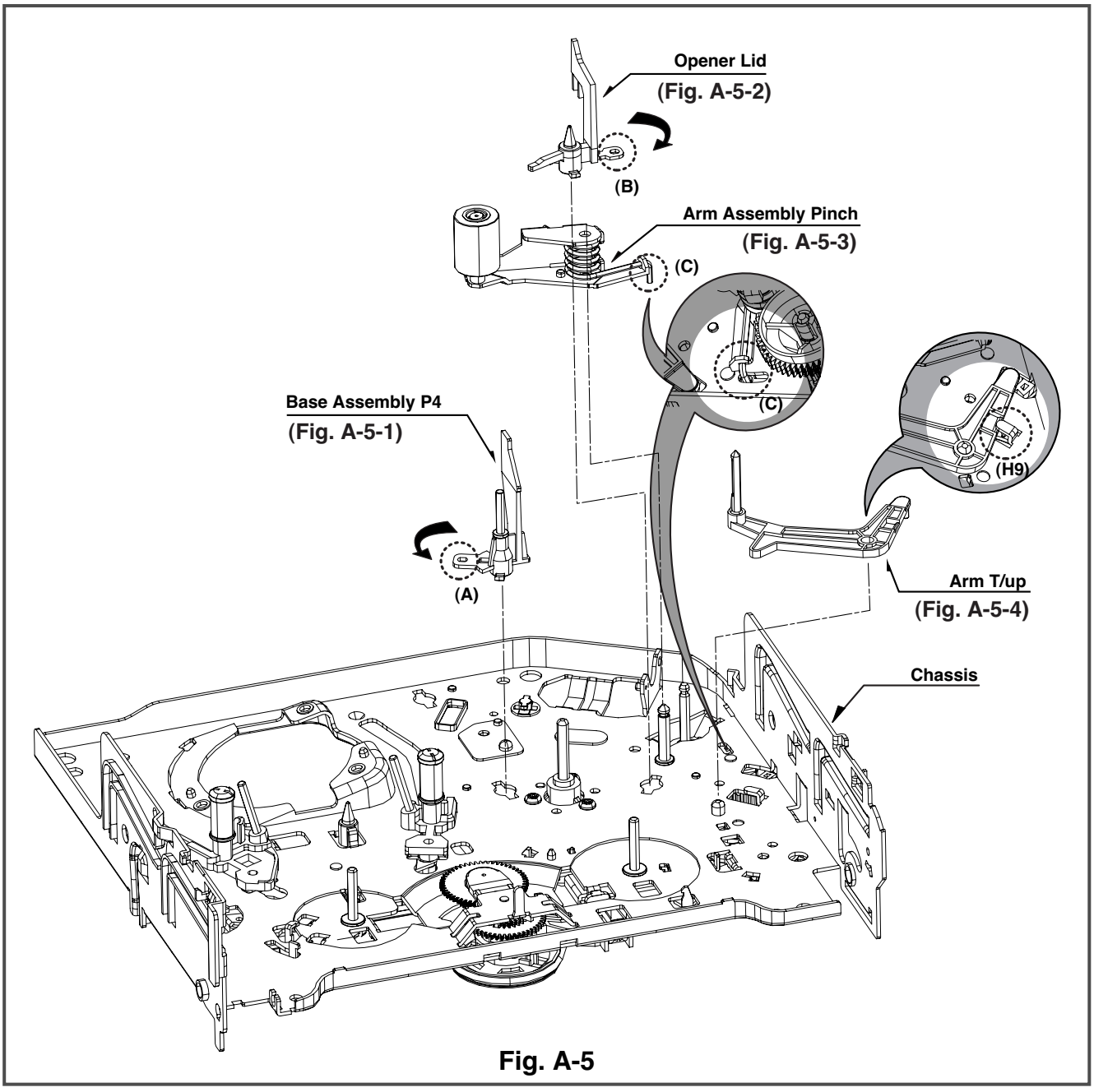


Fig. A-5

16. Base Assembly P4 (Fig. A-5-1)

1) Release the (A) part of the base assembly P4 from the embossing of chassis.
2) Hold the base assembly P4 up while turning it anti-clockwise.

17. Opener Lid (Fig. A-5-2)

1) Release the (B) part of the opener lid from the embossing of chassis.
2) Disassemble the opener lid upward while turning it anti-clockwise.

18. Arm Assembly Pinch (Fig. A-5-3)

1) Hold the arm assembly pinch up.

19. Arm T/up (Fig. A-5-4)

1) Turn the arm T/up to release the anchor jaw (H9) part of chassis and then hold it upward.

CAUTIONS

For the assembly, check the (C) part of the arm assembly pinch is assembled as in drawing.

- REVERSE THE MECHANISM.

DISASSEMBLY AND ASSEMBLY OF DECK MECHANISM

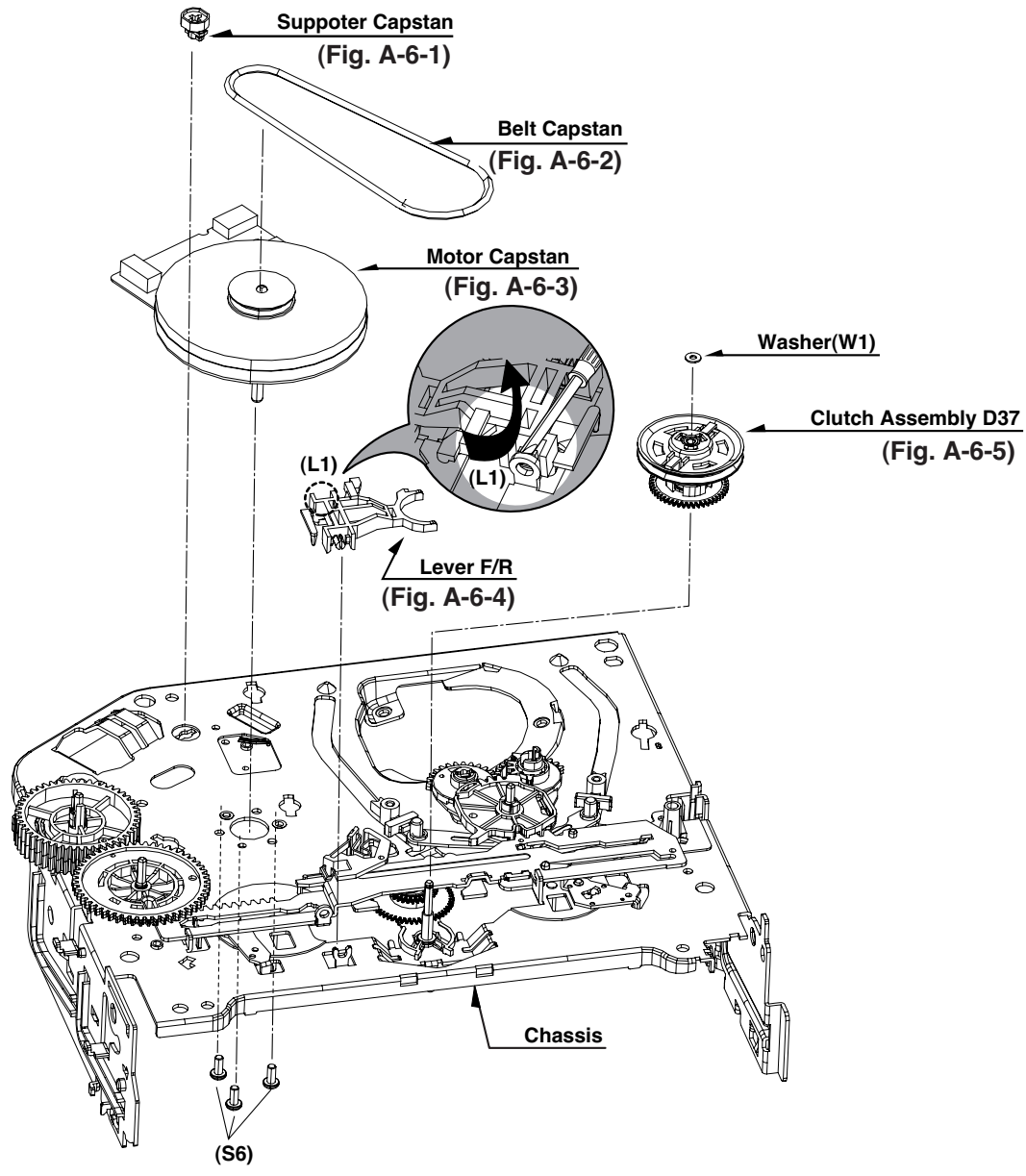


Fig. A-6

20. Supporter, Capstan (Fig. A-6-1)

1) Turn the supporter and Capstan by 90 deg. clockwise with a driver for disassembly.

21. Belt Capstan (Fig. A-6-2) / Motor Capstan (Fig. A-6-3)

1) Separate the belt Capstan.
2) Undo 3 screws (S6) on the bottom side of chassis and disassemble it upward.

22. Lever F/R (Fig. A-6-4)

1) Release the locking tab (L1) and then disassemble it upward.

23. Clutch Assembly D37 (Fig. A-6-5)

1) Remove the washer (W1) and then disassemble it upward.

DISASSEMBLY AND ASSEMBLY OF DECK MECHANISM

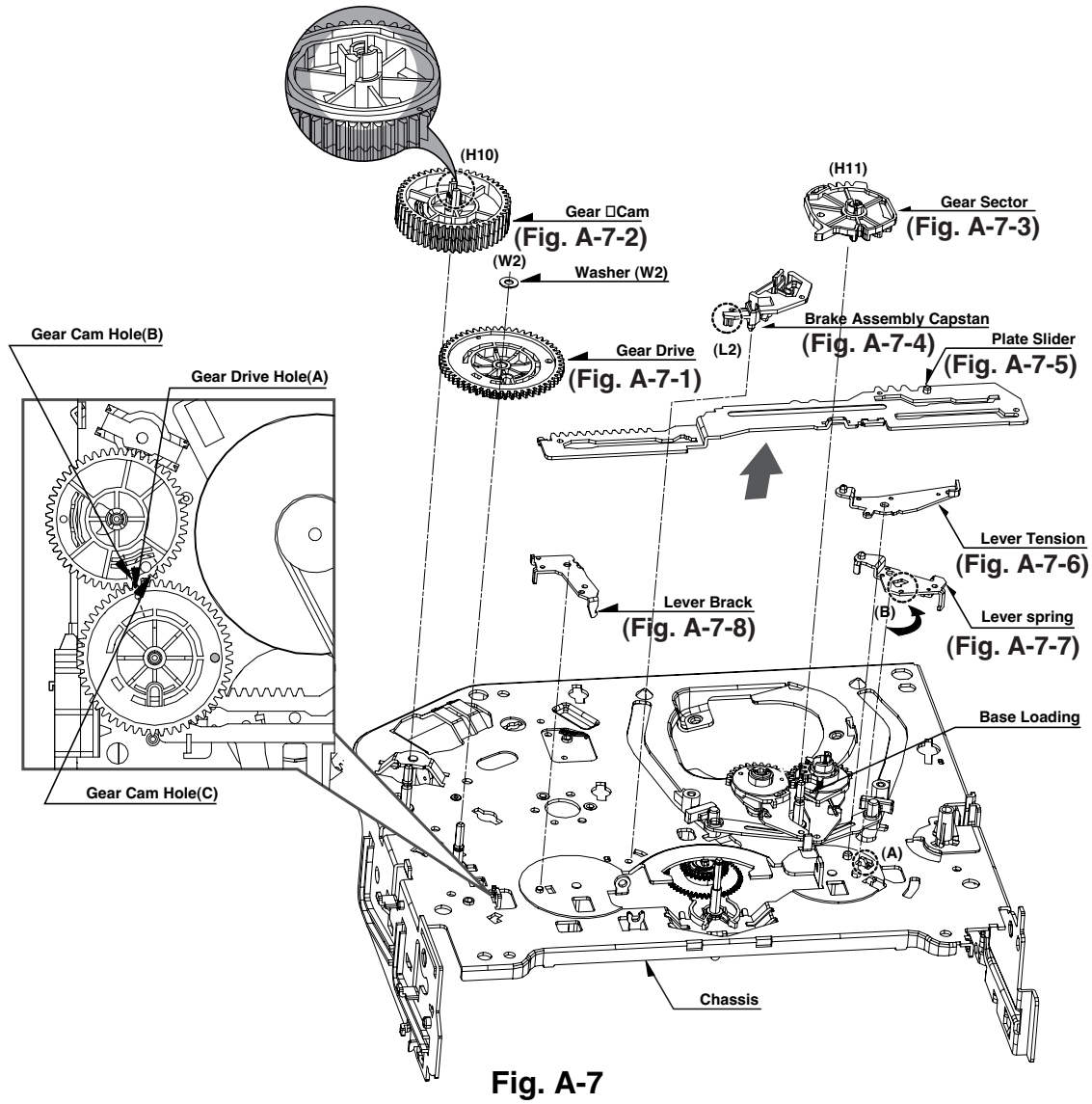


Fig. A-7

24. Gear Drive (Fig. A-7-1)/ Gear Cam (Fig. A-7-2)

1) Remove the washer (W2) and then disassemble the gear drive.
2) Release the hook (H10) of the gear cam and then disassemble it upward.

CAUTIONS

For the assembly, adjust both the gear driver hole (A) and the gear cam hole (B) straightly and then correspond the gear cam hole (C) to the chassis hole.

25. Gear Sector (Fig. A-7-3)

1) Release the hook (H11) of the gear sector and then hold the gear sector upward.

26. Brake Assembly Capstan (Fig. A-7-4)

1) Release the locking tab (L2) on the bottom side of the plate slider and then disassemble it upward.

27. Plate Slider (Fig. A-7-5)

1) Disassemble the plate slider while holding it up.

28. Lever Tension (Fig. A-7-6)

1) Release the lever tension from the guide (A) of chassis while turning it anti-clockwise.
2) Disassemble the lever tension while holding it up.

29. Lever Spring (Fig. A-7-7)

1) Release the (B) part of the lever spring from the guide (A) of chassis while turning it anti-clockwise.
2) Disassemble the lever tension while holding it up.

30. Lever Brake (Fig. A-7-8)

1) Disassemble the lever brake while holding it up.

DECK MECHANISM DISASSEMBLY

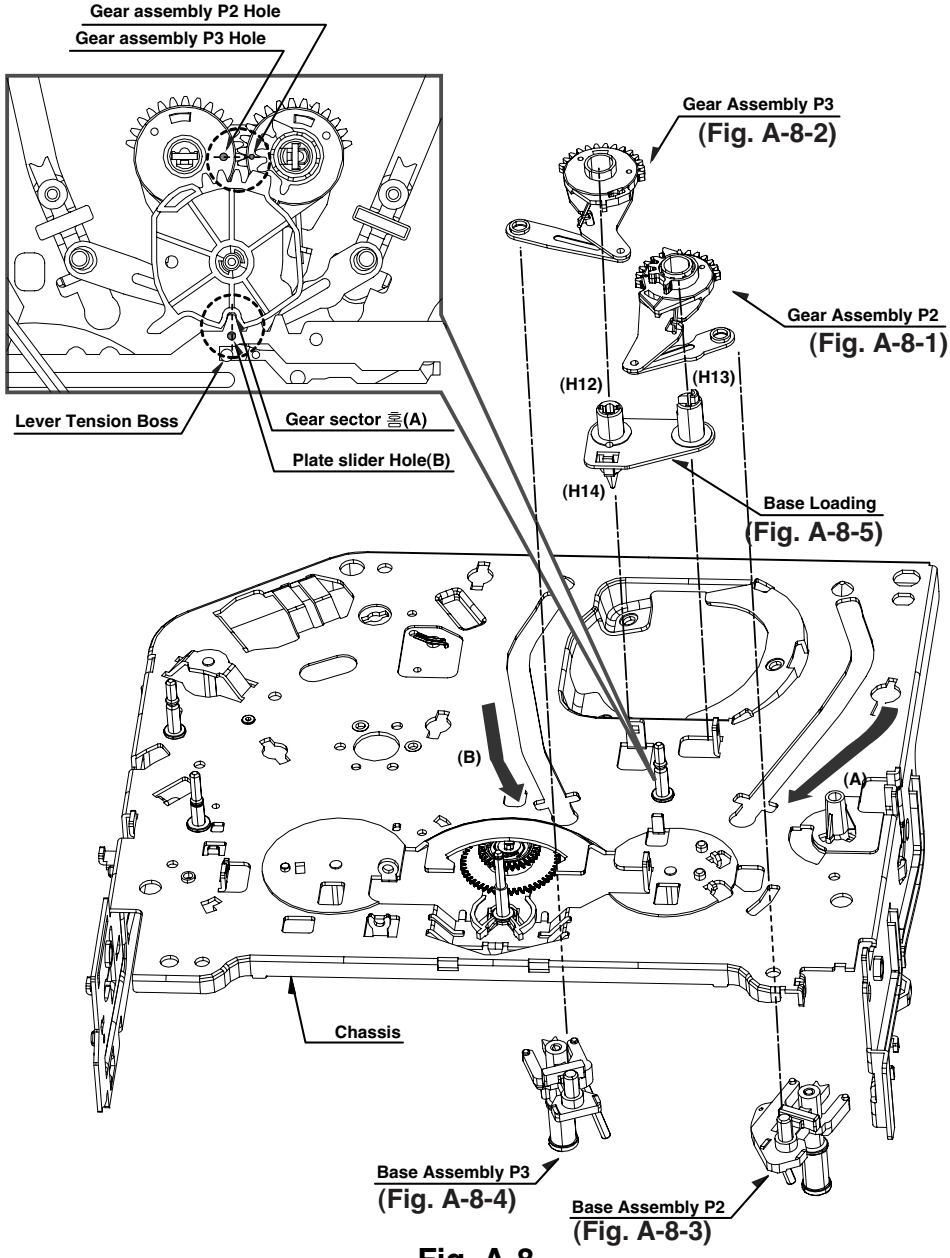


Fig. A-8

31. Gear Assembly P2 (Fig. A-8-1)/ Gear Assembly P3 (Fig. A-8-2)

1) Hold the gear assembly P2 upward.
2) Hold the gear assembly P3 upward.

CAUTIONS

For the assembly, check the holes of both the gear assembly P2 and the P3 are adjusted straightly, and then correspond the gear section groove (A) to the plate slider hole (B).

32. Base Assembly P2 (Fig. A-8-3)/ Base Assembly P3 (Fig. A-8-4)

1) Disassemble the base assembly P2 downward while moving it toward the arrow (A) direction along with the guide hole of chassis.
2) Disassemble the base assembly P2 downward while moving it toward the arrow (B) direction along with the guide hole of chassis.

33. Base Loading (Fig. A-8-5)

1) Release 3 hooks (H12, 13, 14) of the base loading, and then disassemble them upward.
   - Reverse the mechanism.

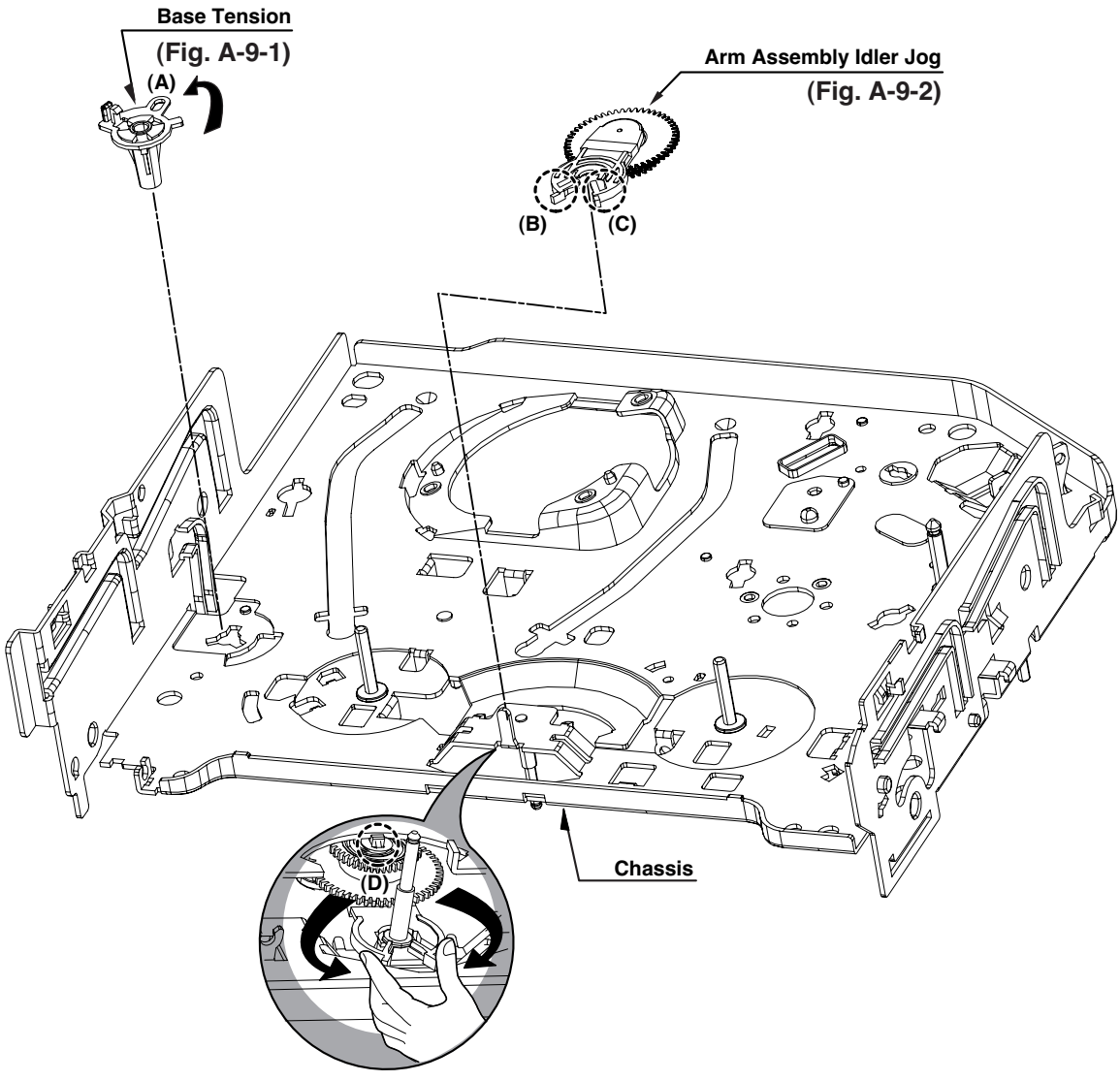


Fig. A-9

34. Base Tension (Fig. A-9-1)

1) Release the (A) part of the base tension from the embossing of chassis.
2) Hold the base tension upward while turning it anti-clockwise.

35. Arm assembly Idler Jog (Fig. A-9-2)

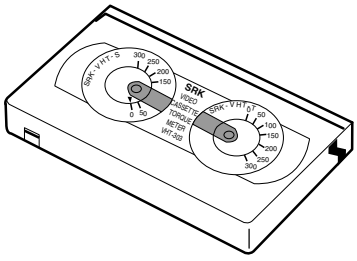
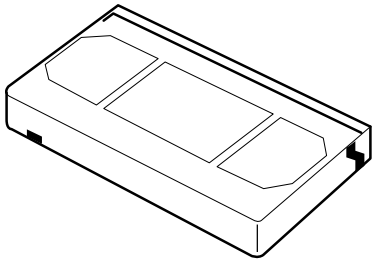
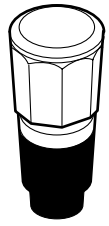
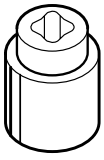
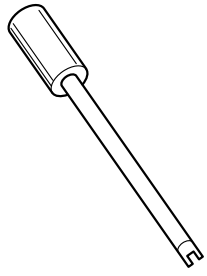
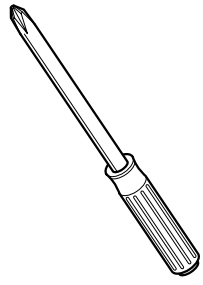
1) Push both (B), (C) parts in Fig. A-9-2 toward the arrow direction.
2) Disassemble the arm assembly idler upward.

CAUTIONS

Take care to ensure that the (D) part in the drawing is not hung to chassis in disassembly.

DECK MECHANISM ADJUSTMENT

• Fixtures and Tools for Service

1. Cassette Torque Meter **SRK-VHT-303(Not SVC part)** **Part No:D00-D006** 	**2. Alignment tape** **Part No NTSC:DTN-0001** **PAL:DTN-0002** 	**3. Torque gauge** **600g.Cm ATG** **Part No:D00-D002** 
4. Torque gauge adaptor **Part No:D09-R001** 	**5. Post height adjusting driver** **Part No:DTL-0005** 	**6. + Type driver (ø5)** 

DECK MECHANISM ADJUSTMENT

1. Mechanism Assembly Mode Check

Purpose of adjustment : To make tools normally operate by positioning tools accurately.		
Fixtures and tools used	**VCR (VCP) status**	**Checking Position**
• Blank Tape (empty tape)	• Eject Mode (with cassette withdrawn)	• Mechanism and Mode Switch

1) Turn the VCR on and take the tape out by pressing the eject button.
2) Separate both top cover and plate top, and check both the hole (A) of gear cam and the hole (A') of chassis correspond (Fig. C-2).
3) If it is done as in the paragraph 2): Turn the gear cam as in No.2) after mantling the motor assembly L/D.
4) Undo the screw fixing the deck and the main frame, and separate the deck assembly. Check both the hole (A) of gear cam and the hole (A') of chassis correspond (Fig. C-1).
5) Check the mode S/W on the main P.C. board locates at a proper position as in (B) of the Fig. (C-1).
6) Connect the deck to the main P.C. board and perform all types of test.

CHECK DIAGRAM

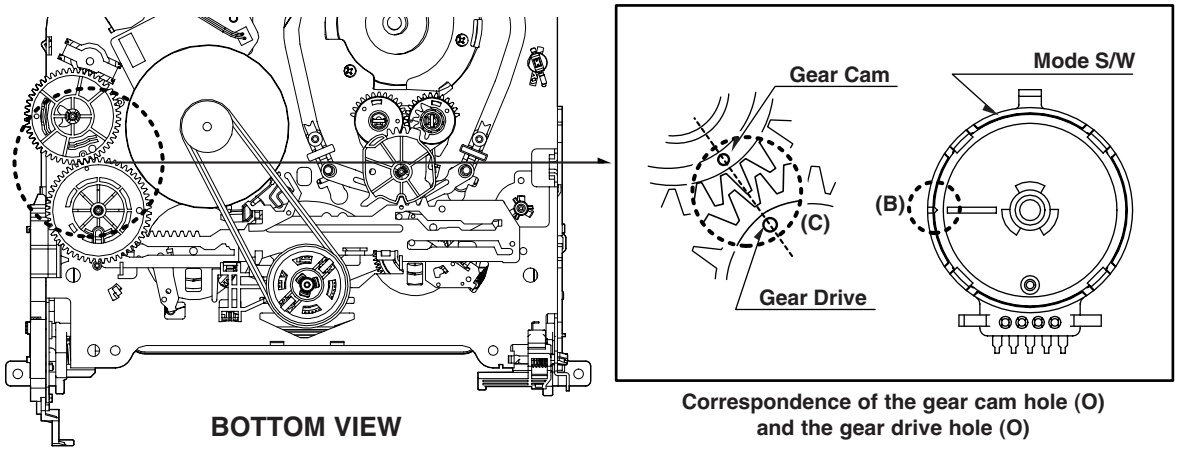


Fig. C-1

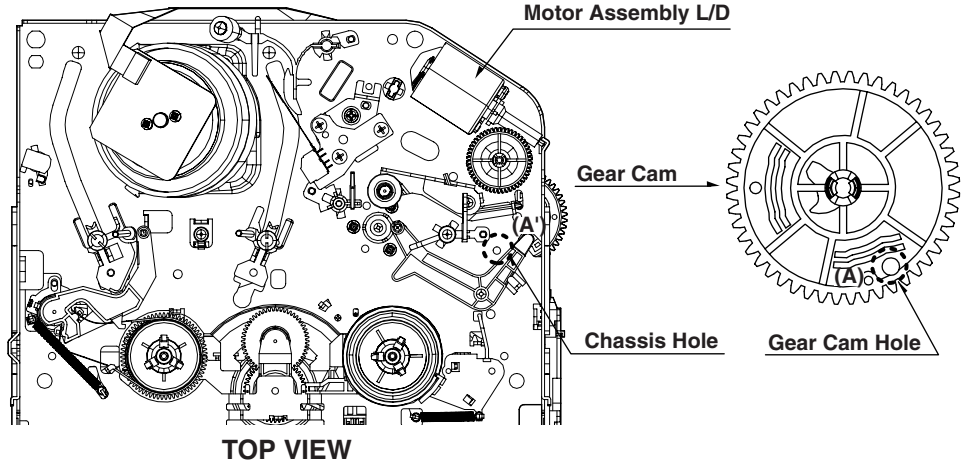


Fig. C-2

DECK MECHANISM ADJUSTMENT

2. Previous Preparation for Deck Adjustment

(Preparation to load the VCR (VCP) with cassette tape not inserted)

1) Take the power cord from the consent.
2) Separate the top cover and the plate assembly top.
3) Insert the power cord into again.
4) Turn the VCR (VCP) on and load the cassette while pushing the lever stopper of the holder assembly CST backward. In this case, clog both holes on the housing rail part of chassis to prevent detection of the end sensor.

If doing so, proceeding to the stop mode is done. In this status, input signals of all modes can be received. However, operation of the Rewind and the Review is impossible since the take-up reel remains at stop status and so cannot detect the reel pulse (however, possible for several seconds).

3. Torque Measuring

Purpose of Measuring : To measure and check the reel torque on the take-up part and the supply part that performs basic operation of the VCR (VCP) for smoothly forwarding the tape.
Measure and check followings when the tape is not smoothly wound or the tape velocity is abnormally proceeded:

Fixtures and tools used	VCR (VCP) status	Measuring method
• Torque Gauge (600 g.cm ATG) • Torque Gauge Adaptor • Cassette Torque Meter SRK-VHT-303	• Play (FF) or Review (REW) Mode	• Try to operate the VCR (VCP) per mode with the tape not inserted (See '2. Prior Preparation for Deck Adjustment). • Measure after adhering and fixing the torque gauge adaptor to the torque gauge (Fig. C-3-1) • Read scale of the supply or take-up part of the cassette torque meter (Fig. C-3-2).

Item	Mode	Instruments	Reel Measured	Measuring Value
Fast forward Torque	Fast Forward	Torque Gauge	Take-Up Reel	More than 400g°cm
Rewind Torque	Rewind	Torque Gauge	Supply Reel	More than 400g°cm
Play Take-Up Torque	Play	VHT-303	Take-Up Reel	40~100g°cm
Review Torque	Review	VHT-303	Supply Reel	120~210g°cm

NOTE

Adhere the torque gauge adaptor to the torque gauge for measuring the value.

• Torque Gauge (600g.cm ATG)

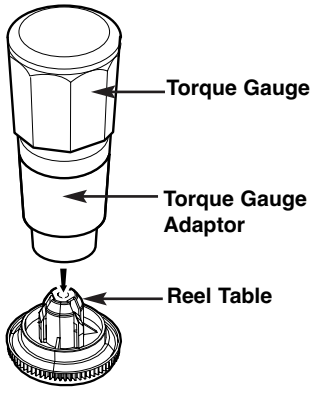


Fig. C-3-1

• Cassette Torque Meter (SRK-VHT-303)

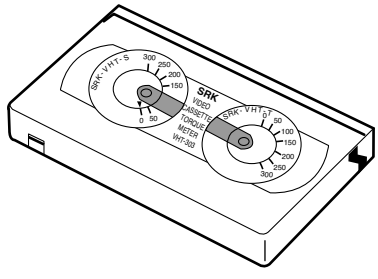


Fig. C-3-2

DECK MECHANISM ADJUSTMENT

4. Guide Roller Height Adjustment

Purpose of adjustment : To ensure that the bottom surface of the tape can travel along with the tape lead line of the lower drum by constantly and adjusting and maintaining the height of the tape.

4-1. Prior Adjustment

Fixtures and tools used	VCR (VCP) status	Adjustment position
• Post Height Adjusting Driver	• Play or Review Mode	• The guide roller height adjusting screw on the supply guide roller and the take-up guide roller

Adjustment Procedure

1) Travel the tape and check the bottom surface of the tape travels along with the guide line of the lower drum.
2) If the tape travels toward the lower part of guide line on the lower drum, turn the guide roller height adjusting screw to the left
3) If it travels to the upper part, turn it to the right.
4) Adjust the height of the guide roller to ensure that the tape is guided on the guide line of the lower drum at the inlet/outlet of the drum. (Fig. C-4-1)

ADJUSTMENT DIAGRAM

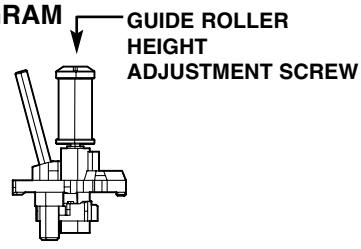


Fig. C-4-1

4-2. Fine Adjustment

Fixtures and tools used	Measuring tools and connection position	VCR (VCP) status	Adjustment position
• Oscilloscope • Standard test tape • Post height adjusting driver	• CH-1: PB RF Envelope • CH-2: NTSC : SW 30Hz PAL : SW 25Hz • Head switching output point • RF Envelope output point	• Play the standard test tape.	• Guide roller height adjusting screw

1) Play the standard test tape after connecting the probe of oscilloscope to the RF envelope output point and the head switching output point.
2) Tracking control (playback) : Locate it at the center (Set the RF output to the maximum value via the tracking control when such adjustment is completed after the drum assembly is replaced.)
3) Height adjusting screw: Flatten the RF waveform. (Fig. C-4-2)
4) Move the tracking control (playback) to the right/left. (Fig. C-4-3)
5) Check the start and the end of the RF output reduction width are constant.

CAUTIONS

There must exist no crumpling and folding of the tape due to excess adjustment or insufficient adjustment.

Waveform

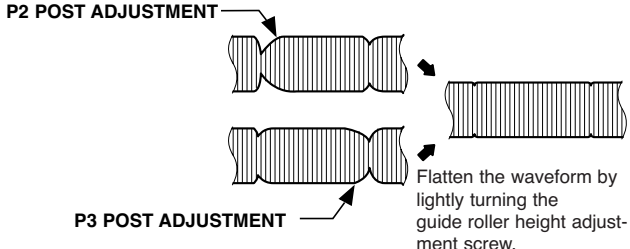

P2 POST ADJUSTMENT
P3 POST ADJUSTMENT
Flatten the waveform by lightly turning the guide roller height adjustment screw.

Fig. C-4-2

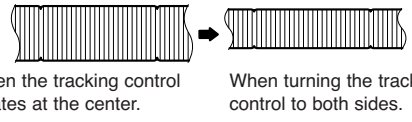
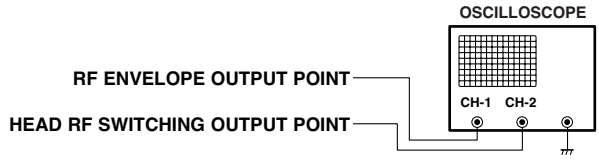


Fig. C-4-2

Connection Diagram



DECK MECHANISM ADJUSTMENT

5. Audio/Control (A/C) Head Adjustment

Purpose of adjustment : To ensure that audio and control signals can be recorded and played according to the contract tract by constantly maintaining distance between tape and head, and tape tension between the P3 post and the P4 post.

5-1. Prior Adjustment (performed only when no audio output appears in play of the standard test tape)

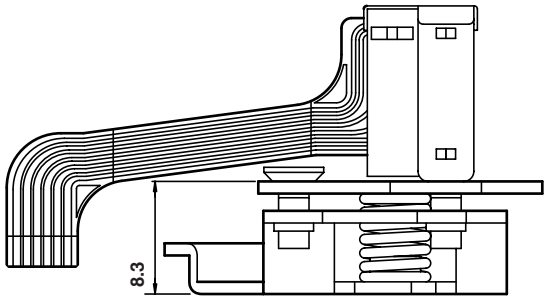
Fixtures and tools used	VCR (VCP) status	Adjustment position
• Blank Tape (Empty Tape) • Driver (+) Type ø 5	• Play the blank tape (empty tape).	• Tilt adjusting screw (C) • Height adjusting screw (B) • Azimuth adjusting screw (A)

Adjustment Procedure/Adjustment Diagrams

1) Basically use the A/C head assembly adjusted as in SPEC.
2) Check there is crumpling and folding of the tape around the A/C head. If it is, Turn and adjust the tilt adjusting screw to ensure that the tape corresponds to the bottom guide of the P4, and recheck the tape path after proceeding play for 4-5 seconds.
3) Where the tape bottom is not equal to Fig. C-5-3, Adjust the height by using the height adjusting screw (B) and then readjust it by using the tilt adjusting screw (C).

CAUTIONS

Always check the height of the A/C head since most ideal height of A/C head can be obtained when the bottom part of the tape is away 0.2 ~ 0.25mm from the bottom part of the A/C head.



A/C Head Base

Fig. C-5-1

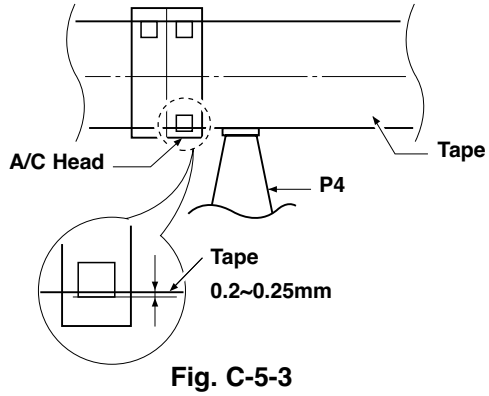
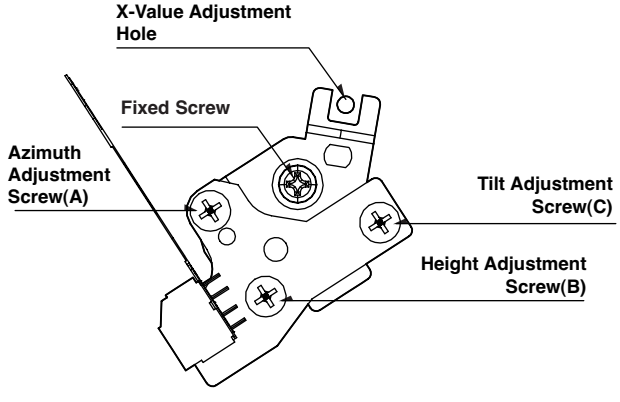


Fig. C-5-3



A/C Head Assembly

Fig. C-5-2

5-2. Tape Path Check between Pinch Roller and Take up Guide (Check in the Rev Mode)

1) Check the tape pass status between the pinch roller and the take-up guide.(Check there is crumpling of the tape pass and folding of the take-up guide.)
   (1) When holding of the take-up guide bottom occurs Turn the tilt adjusting screw (C) clockwise and travel it stably to ensure there is no crumbling or folding of the tape.
   (2) When holding of the take-up guide top occurs Turn the tilt adjusting screw (C) anti-clockwise and travel it stably to ensure there is no crumbling or folding of the tape.

2) Check there is folding of the tape at the bottom or top of the take-up guide in cutting-off the REV mode

CAUTIONS

If the RF waveform is changed after adjusting the A/C head, perform fine adjustment to ensure the RF waveform is flattened.

5-3. Fine Adjustment (Azimuth Adjustment)

Fixtures and tools used	Connection position	VCR (VCP) status	Adjustment position
• Oscilloscope • Standard test tape (only for SP) • Driver (+) Type Ø 4	• Audio Output Jack	• Play the standard test • Tape, 1KHz, 7KHz.	• Azimuth Adjusting Screw (A) • Height Adjusting Screw (B)

Adjustment Procedure

1) Connect the probe of Oscilloscope to the audio output jack.
2) Ensure that Audio 1KHz, 7KHz output is flattened at the maximization point by adjusting the Azimuth adjusting screw (A).

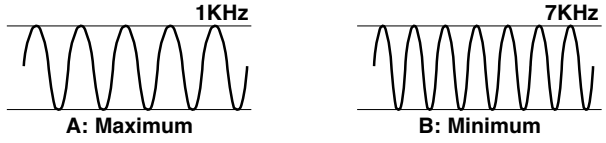
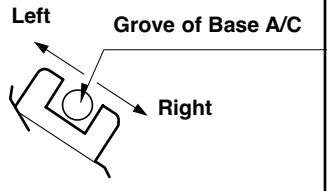


Fig. C-5-4

6. X-distance Adjustment

Purpose of adjustment : To maintain compatibility with other VCR (VCP).

Fixtures and tools used	Connection position	VCR (VCP) status	Adjustment position
• Oscilloscope • Standard test tape (only for SP) • Driver (+) Type Ø 4	• CH-1: PB RF Envelope • CH-2: NTSC ; SW 30Hz PAL:SW 25Hz • Head switching output point • RF Envelope output point	• Play the standard test tape.	

Adjustment Procedure

1) After releasing the auto tracking, lightly turn the fixing screw. Turn the (+) type driver (Ø 3 ~ Ø 4) on the X-distance adjusting hole to the right or left. Adjust the RF envelope level to the maximum point and then fix the fixing screws.
2) For the 31mm head, adjust it with the SP tape recorded in the width of 31mm since the head travels on the tape track only for SP with the width of 58mm.

Connection Diagram

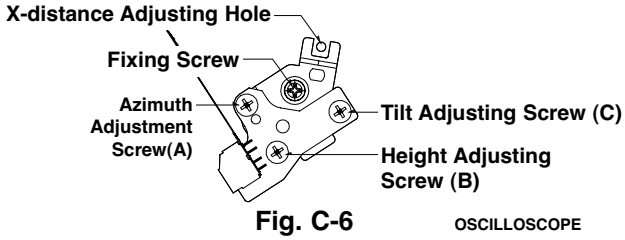
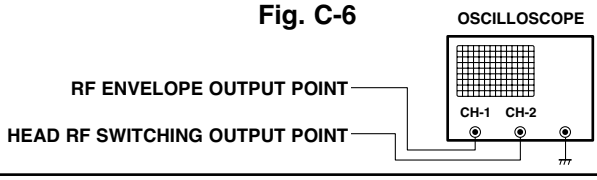


Fig. C-6



DECK MECHANISM ADJUSTMENT

7. Adjustment after Drum Assembly (Video Heads)

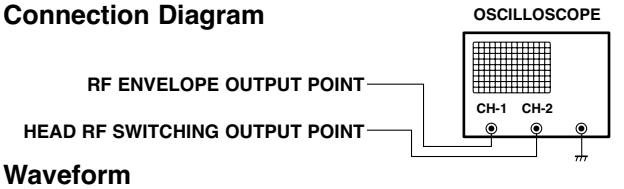
Purpose of adjustment : To adjust and stabilize the height change, X-distance change, etc depending on the guide roller after assembling the drum.

Fixtures and tools used	Connection position	VCR (VCP) status	Adjustment position
• Oscilloscope • Standard test tape (only for SP) • Post Height Adjusting Driver • Driver (+) Type Ø 5	• CH-1: PB RF Envelope • CH-2: NTSC : SW 30Hz PAL:SW 25Hz • Head switching output point • RF Envelope output point	• Play the blank tape. • Play the standard test tape.	• Fine adjustment of guide roller • Switching Point • Tracking Preset • X-distance

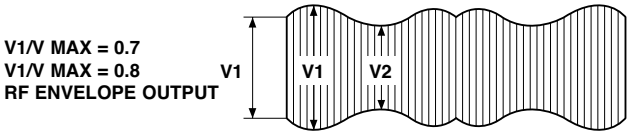
Checking/Adjustment Procedure

1) Play the blank tape (empty tape) and check whether the guide roller crumbles or wrinkles the tape and adjust it if necessary.
2) Check that the RF envelope output waveform is flat, and adjust the height of the guide roller while playing the standard test tape.
3) Adjust the switching point.
4) Check the RF envelope output is the maximum when the tracking control locates at the center. If not maximum, set up to ensure that RF envelope output becomes the maximum by turning the (+) type driver (Ø 3 ~ Ø 4) on the base A/C groove.

Connection Diagram



Waveform



8. Check of Traveling Device after Deck Assembly

8-1. Check of Audio, RF Normalization Time (Locking Time) in Play after CUE or REV

Fixtures and tools used	Measuring standard	Connection position	VCR (VCP) status
• Oscilloscope • 6H 3KHz Color Bar Standard Test tape • Stop Watch	• RF Locking Time: Within 5 seconds • Audio Locking Time : Within 10 seconds	• CH-1: PB RF Envelope • CH-2: Audio output • RF Envelope output point • Audio output jack	• Play the 6H 3KHz Color Bar Standard Test tape.

Checking Procedure

1) Check that locking time of the RF and Audio waveform is fallen within the measuring standard in conversion of the play mode from the CUE or the REV mode.
2) Readjust the paragraph 5 and 6 if it deviates from the standard.

8-2. Check of Tape Curl and Jam Status

Fixtures and tools used	Fixtures and tools used	Fixtures and tools used
• T-160 Tape • T-120 Tape	• There must be no jam or curl at the first, middle and end position of tape.	• Travel the tape at the position of its first and end.

Checking Procedure

1) Check there is no abnormality of every traveling post status.
2) There must be no abnormal operation of the counter in occurrence of folding of the bottom tape. There must be not abnormality of audio signal in damage of the top tape.
3) If there is abnormality, readjust the adjustment paragraph 4 and 5.

1. Checking Points prior to Repair

Following abnormal phenomena may be repaired by removal of foreign materials and oil supply. Check oiling is required at the checking set or cleaning status is complete. Determine that necessity of checking and repair the set exists after checking the using period of the set together with the user. In this case, followings must be checked:

Phenomena	Checking Points and Cause	Replace-ment
Color beat	Pollution of Full-Erase Head	o
S/N, Color Faded	Pollution of Video Head	o
Horizontal, Vertical Jitte	Pollution of Video Head or Tape Transport System	o
Poor Sound, Low Sound	Pollution of Audio/Control Head	o
No tape wound or tape wound loosely. FF or REW impossible, or slow turning	Pollution of Pinch Roller or Belt Capstan Belt	o
Tape loosely wound in REV or Unloading	Deterioration of Clutch Assembly D37 Torque	o
	Pollution of Drum and Traveling Device	Fig. C-9-3

CAUTIONS

If operation of the position with (O) mark is abnormal even after removing cause, replace it with substitute product since it shows damage or wearing.

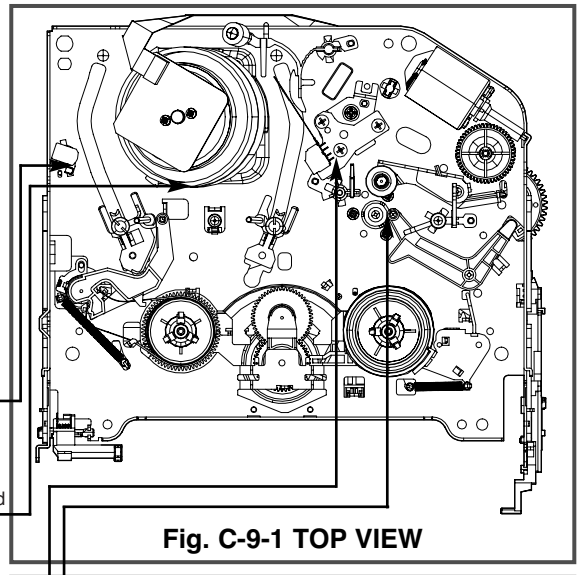


Fig. C-9-1 TOP VIEW

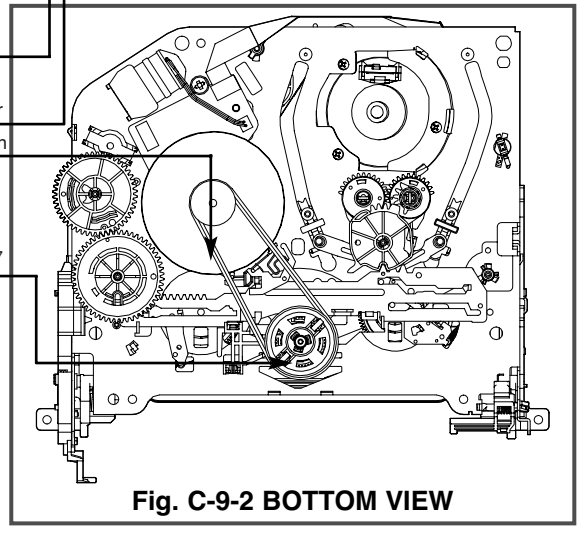


Fig. C-9-2 BOTTOM VIEW

*** No. (1) ~ (12) shows sequence that the tape moves from the supply reel to the take-up reel.)**

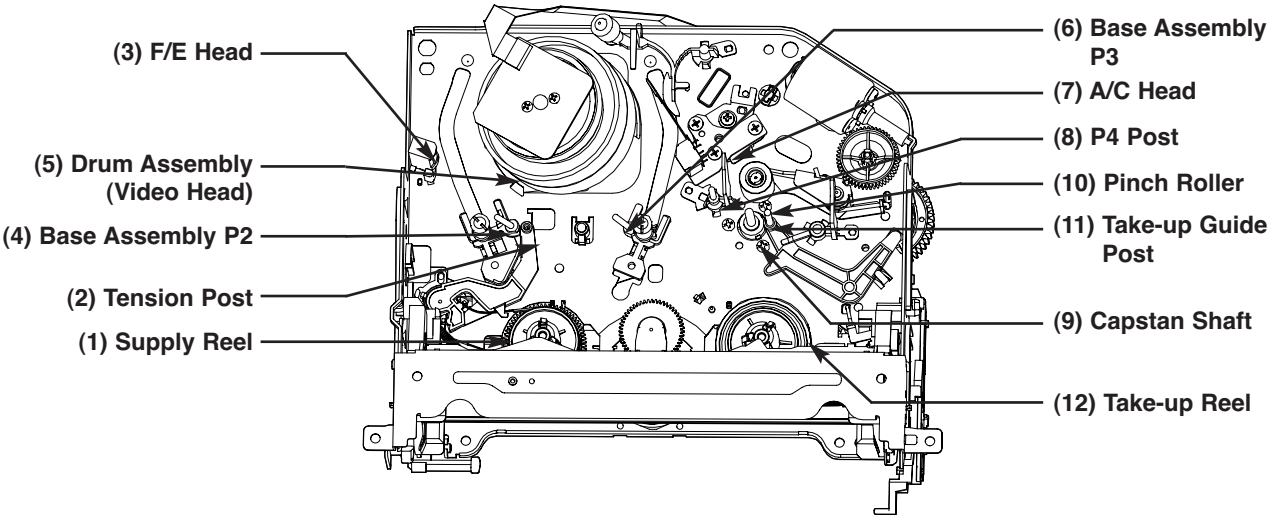


Fig. C-9-3 Tape Transport System

2. Essential Check and Repair

Recording density of the video is far higher than the audio. Therefore video parts are very precise so as to allow only error of 1/1000mm or so in order to maintain compatibility with other videos.
If one of these parts is polluted or old, same phenomena will appear as they are damaged.
To maintain clear screen, regular check, replacement of old and damaged parts and oil supply, etc are essential.

3. Regular Check and Repair

Check and repair schedule is not constant since they vary depending on method that the consumer uses video and environment where the video is installed at.
However, for the video used by common household, good screen will be maintained if regular check and repair per 1,000 hour is performed. The following chart shows relationship between using time and checking time:

Table 1

Time Requiring Checking / Average hours used per day	About 1 year	About 18 months	About 3 years
One hour	■	■	■
Two hours	■	■	
Three hours	■		

4. Tools for Check and Repair

(1) Grease: Floil G-3114 (KANTO) or equivalent grease (Green)
(2) Grease: Kanto G-754, PL-433 (Yellow)
(3) Alcohol (Isopropyl Alcohol)
(4) Cleaning Patch (cloth)

5. Maintenance Process

5-1) Removal of Foreign Material

(1) Removal of foreign material from video head (Fig. C-9-4)
Firstly try to use a cleaning tape.
Use a cleaning patch if foreign materials are not removed with the cleaning tape due to severe dirty of the head. Soak the cleaning patch in alcohol and put it to the head tip. Smoothly turn the drum (turning cylinder) to the right or left (In this case, the cleaning patch must not be moved vertically).
After completely drying the head, test the traveling status of the tape.
If alcohol (Isopropyl Alcohol) remains at the video head, the tape may be damaged when this solution touches with the head surface.

Never use a cloth bar (commercial sale)

(2) Wipe the tape transport system and the drive system with the cleaning patch soaked in alcohol (Isopropyl Alcohol) when removing foreign materials from them.
1) The part touched with the traveling tape is called as tape transport system. The drive system consists of parts to travel the tape.
2) Care must be exercised so that unreasonable force to change the pattern will be applied to the tape transport system during removal of foreign materials.

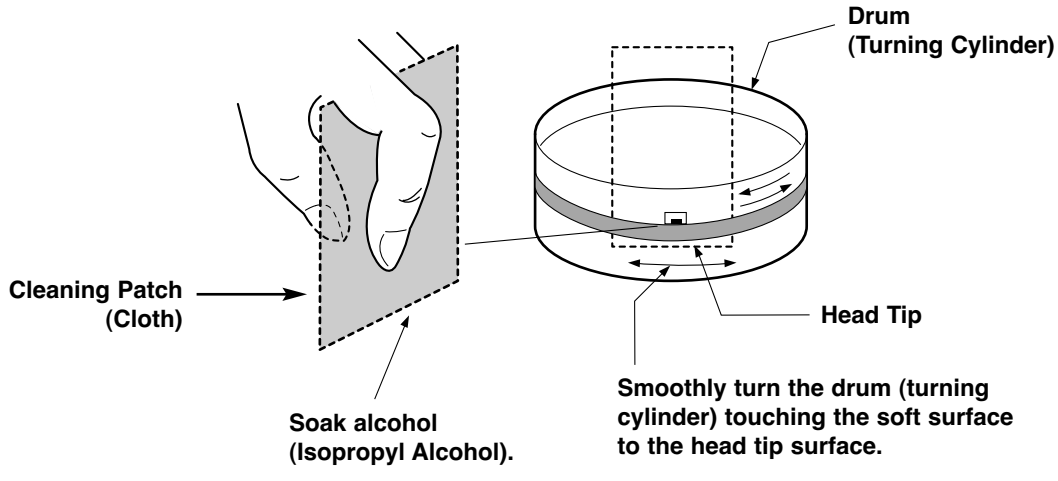


Fig. C-9-4

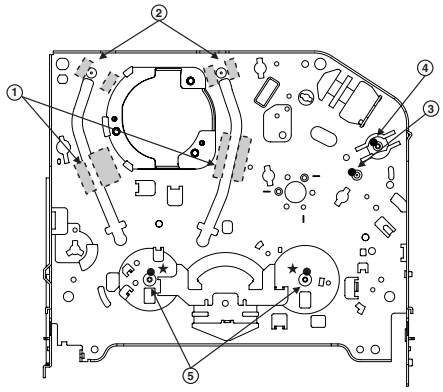
5-2) Grease Applications

(1) Grease Application Method

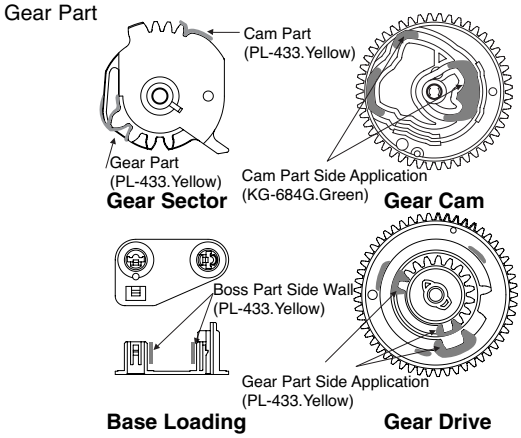
Apply grease by using a cloth swab or brush. Care must be exercised so that excess quantity should not be used. If the excessive quantity is applied, wipe it with the gauze soaked in alcohol (Isopropyl Alcohol).

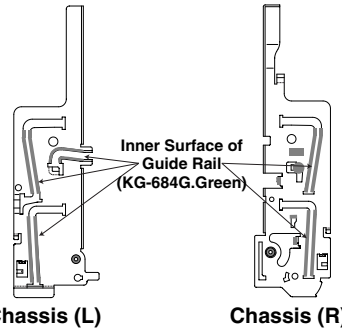
NOTE: POSITION OF GREASE APPLICATION

(1) Inner Side Surface and Top Surface of Loading Path
(2) Stable Adhesion Part of Base P2, P3
(3) Arm Pinch Shaft
(4) Gear Wheel Shaft
(5) Reel S. T. Shaft
(1) (2) (3) (4): KG-684G (Green)
(5): PL-433 (Yellow)



Chassis (TOP)

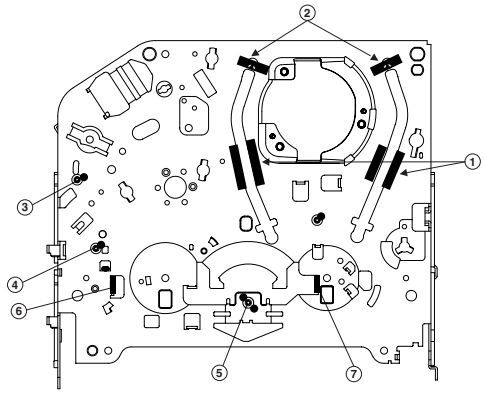




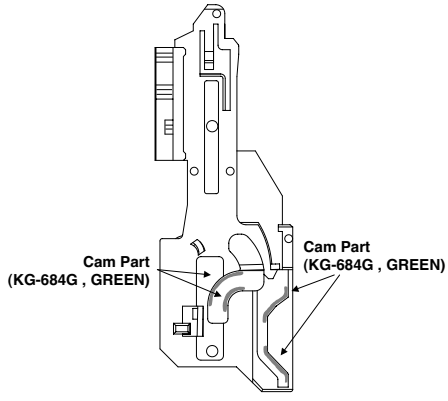
(2) Regular Grease Application

Apply grease to the designated application position every 500 hour.

(1) Inner Side Surface and Top Surface of Loading Path
(2) Stable Adhesion Part of Base P2, P3 Coil
(3) Gear Cam Shaft
(4) Gear Drive Shaft
(5) Clutch Shaft Groove
(6) Guide Part on the Plate Slider Side Wall (Left)
(7) Guide Part on the Plate Slider Side Wall (Right)
(1) (2) (3) (4) (5) (6) (7): KG-684G (Green)



Chassis (Bottom)



Gear Rack F/L

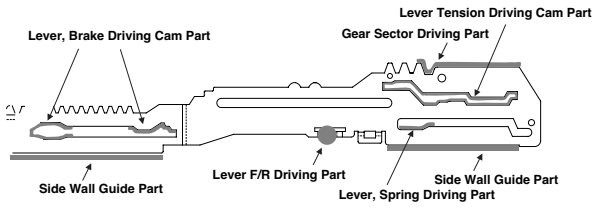
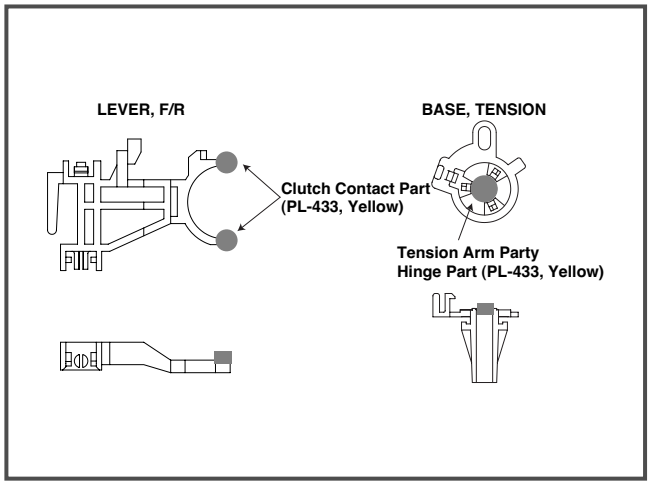
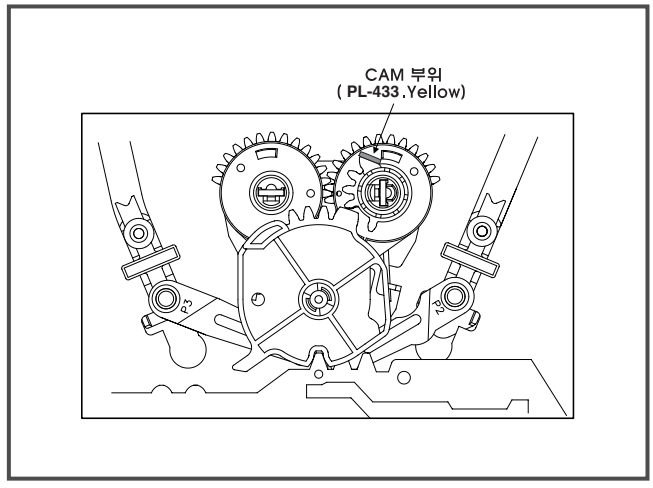

Lever, Brake Driving Cam Part
Lever Tension Driving Cam Part
Gear Sector Driving Part
Side Wall Guide Part
Lever F/R Driving Part
Side Wall Guide Part
Lever, Spring Driving Part

Plate Slider

Lever, F/R, Base, Tension

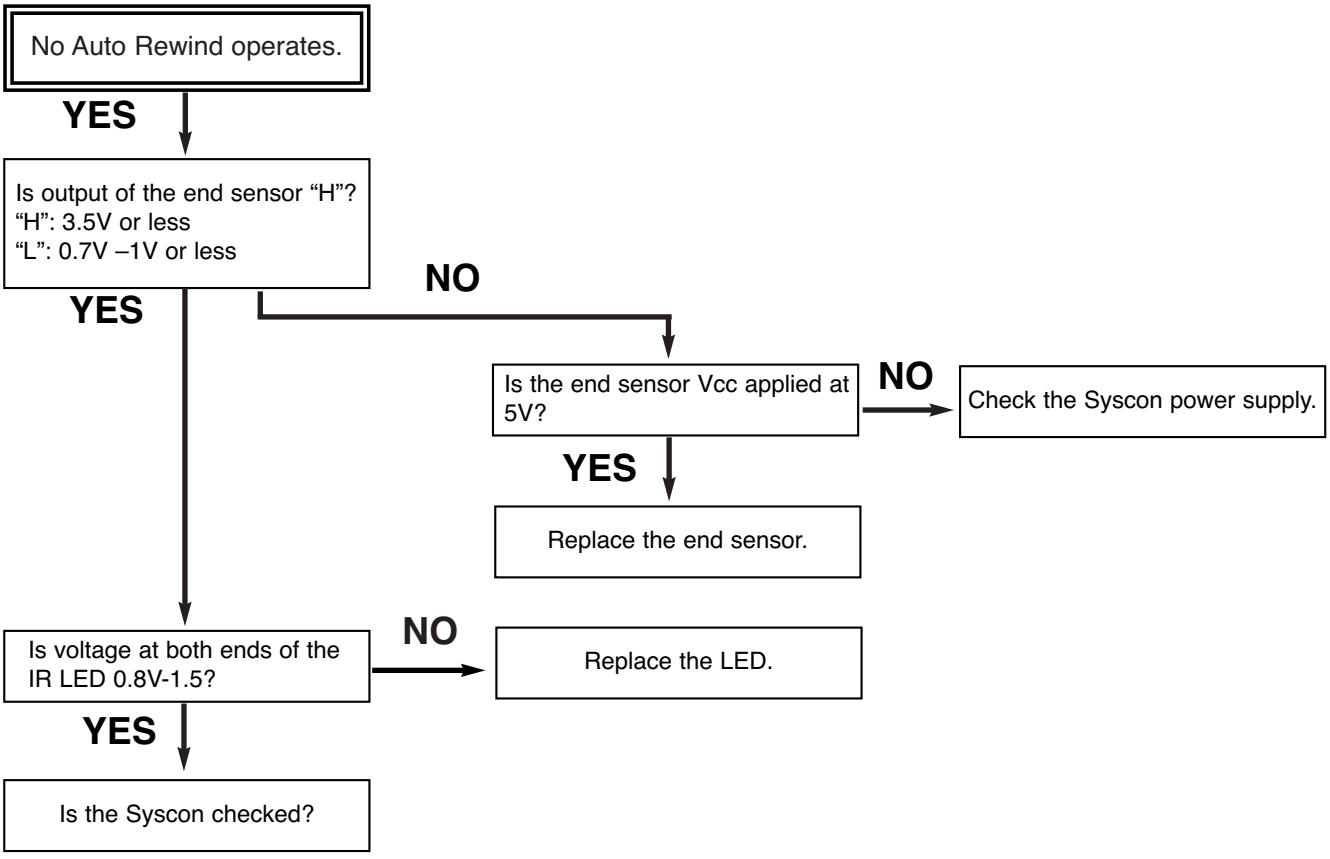


GEAR AY, P2 & P3

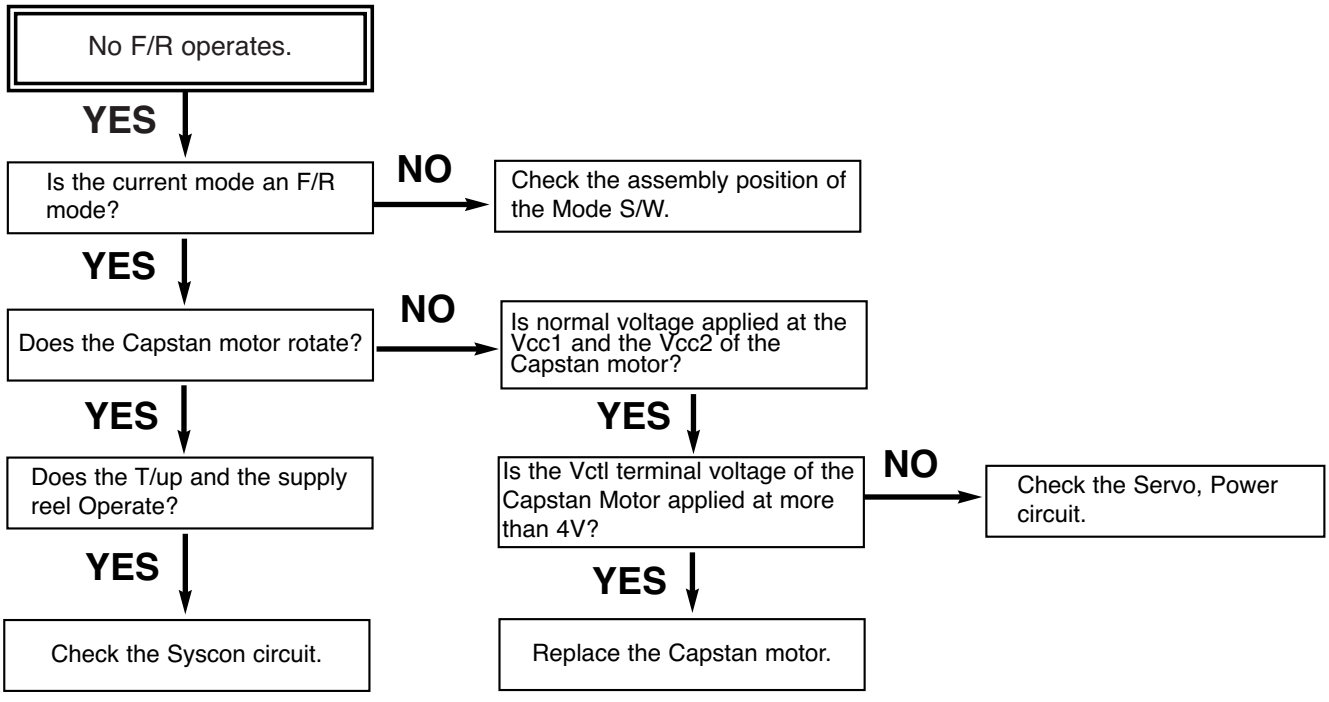


1.Deck Mechanism

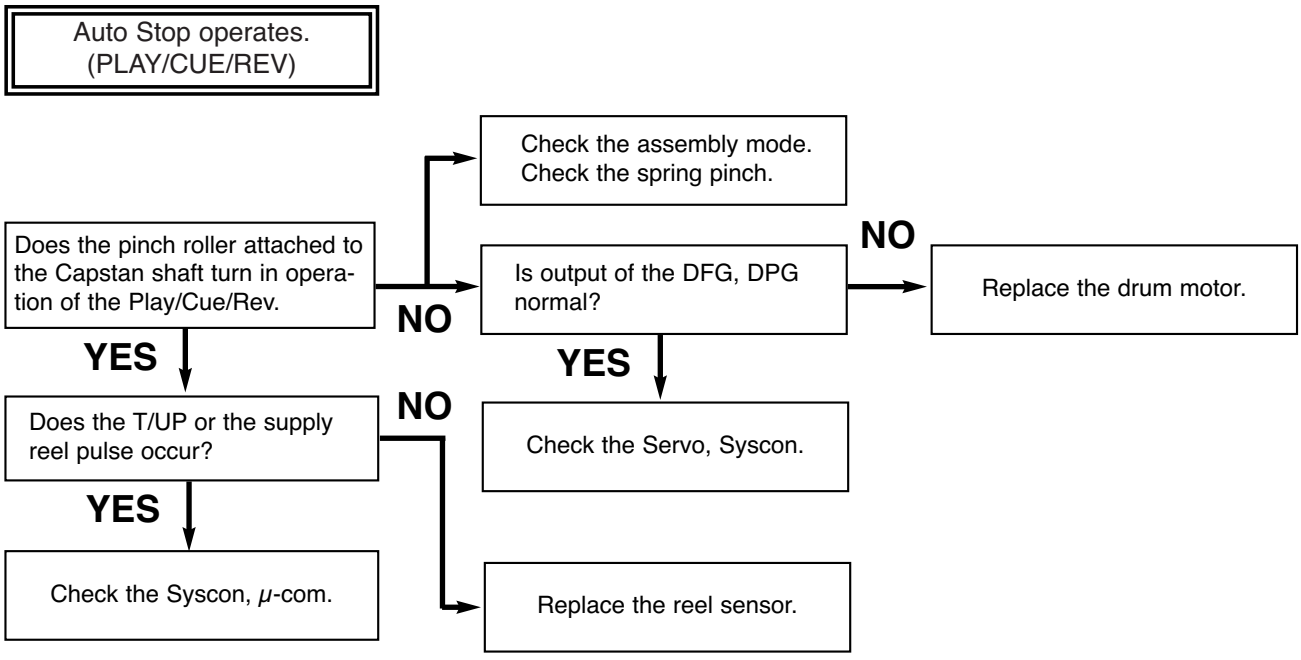
A.



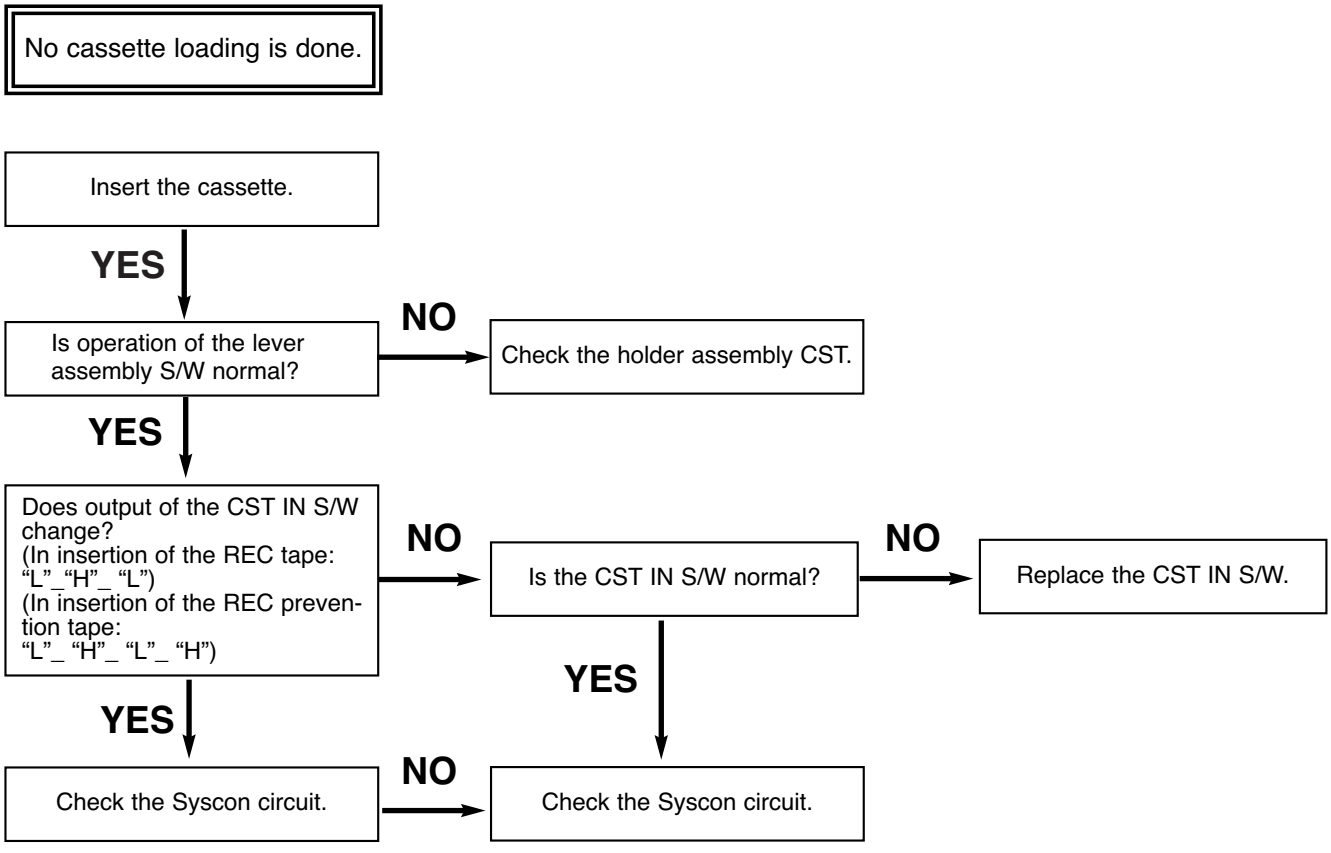
B.


No F/R operates.
YES
Is the current mode an F/R mode?
NO
Check the assembly position of the Mode S/W.
YES
Does the Capstan motor rotate?
NO
Is normal voltage applied at the Vcc1 and the Vcc2 of the Capstan motor?
YES
YES
Does the T/up and the supply reel Operate?
Is the Vctl terminal voltage of the Capstan Motor applied at more than 4V?
NO
Check the Servo, Power circuit.
YES
YES
Check the Syscon circuit.
Replace the Capstan motor.

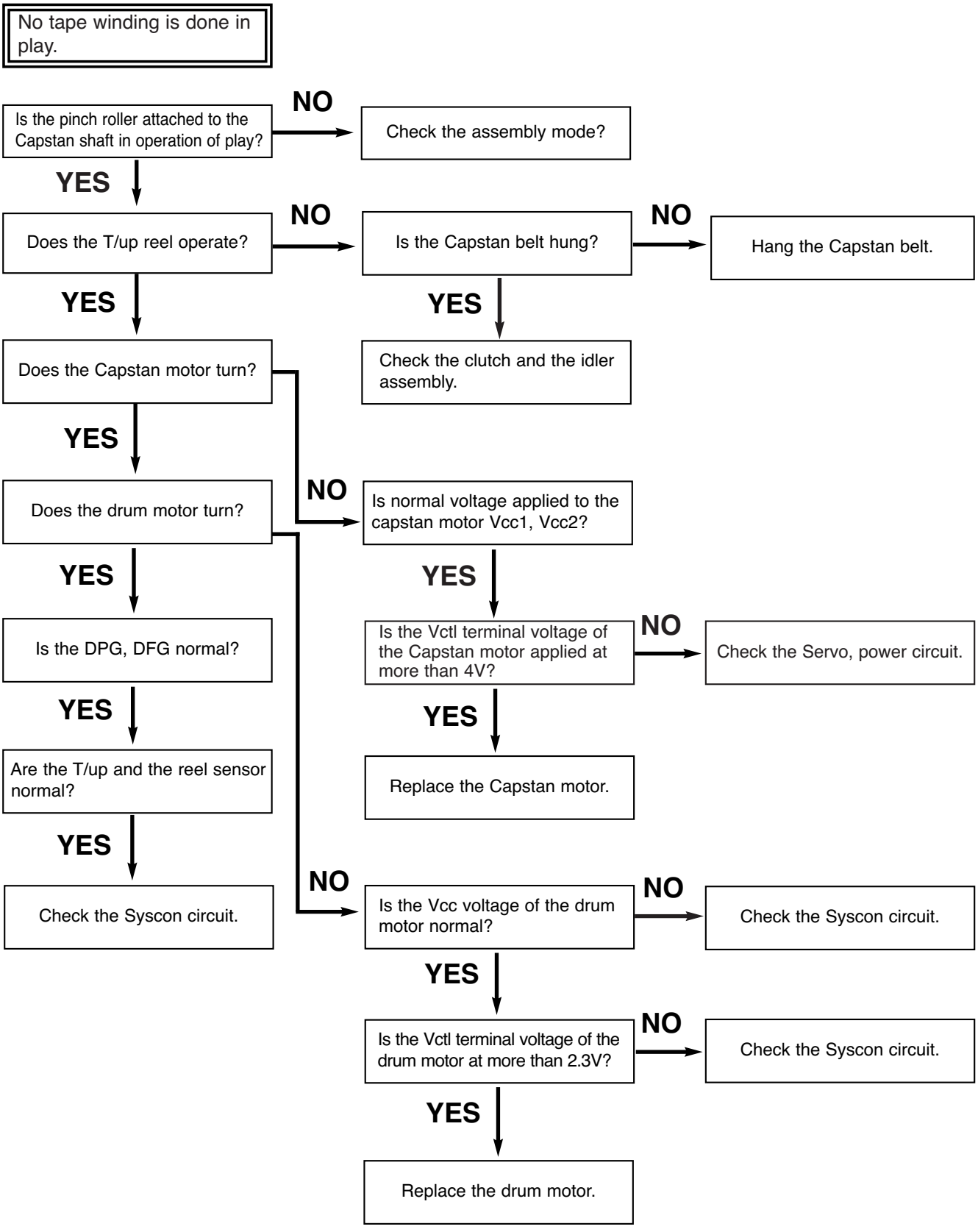
C.


Auto Stop operates.
(PLAY/CUE/REV)
Does the pinch roller attached to the Capstan shaft turn in operation of the Play/Cue/Rev.
NO
Check the assembly mode.
Check the spring pinch.
Is output of the DFG, DPG normal?
NO
Replace the drum motor.
YES
YES
Does the T/UP or the supply reel pulse occur?
NO
Check the Servo, Syscon.
YES
Check the Syscon, μ-com.
Replace the reel sensor.

D.

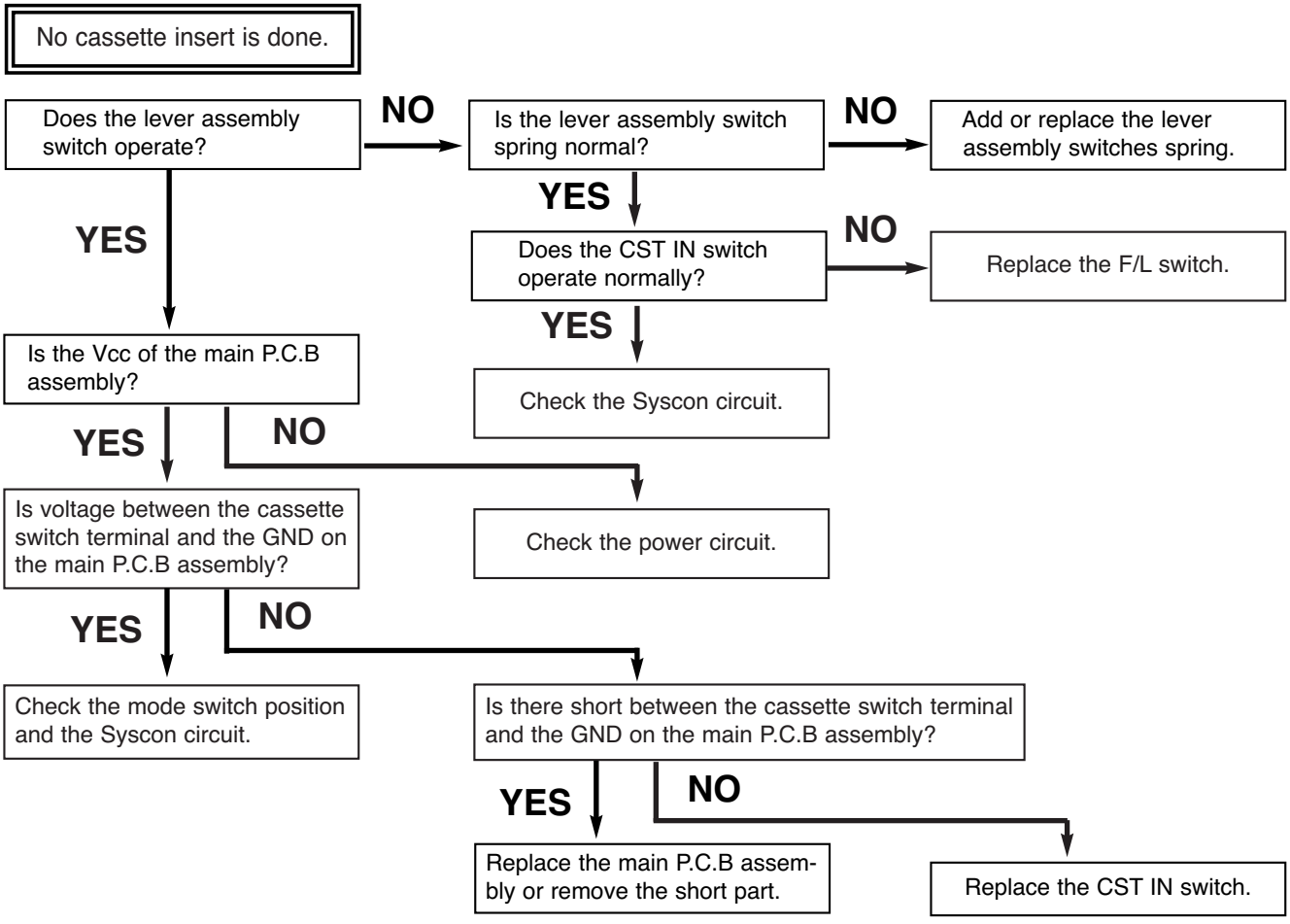

No cassette loading is done.
Insert the cassette.
YES
Is operation of the lever assembly S/W normal?
NO
Check the holder assembly CST.
YES
Does output of the CST IN S/W change?
(In insertion of the REC tape:
"L"_"H"_"L")
(In insertion of the REC prevention tape:
"L"_"H"_"L"_"H")
NO
Is the CST IN S/W normal?
NO
Replace the CST IN S/W.
YES
YES
Check the Syscon circuit.
NO
Check the Syscon circuit.

E.

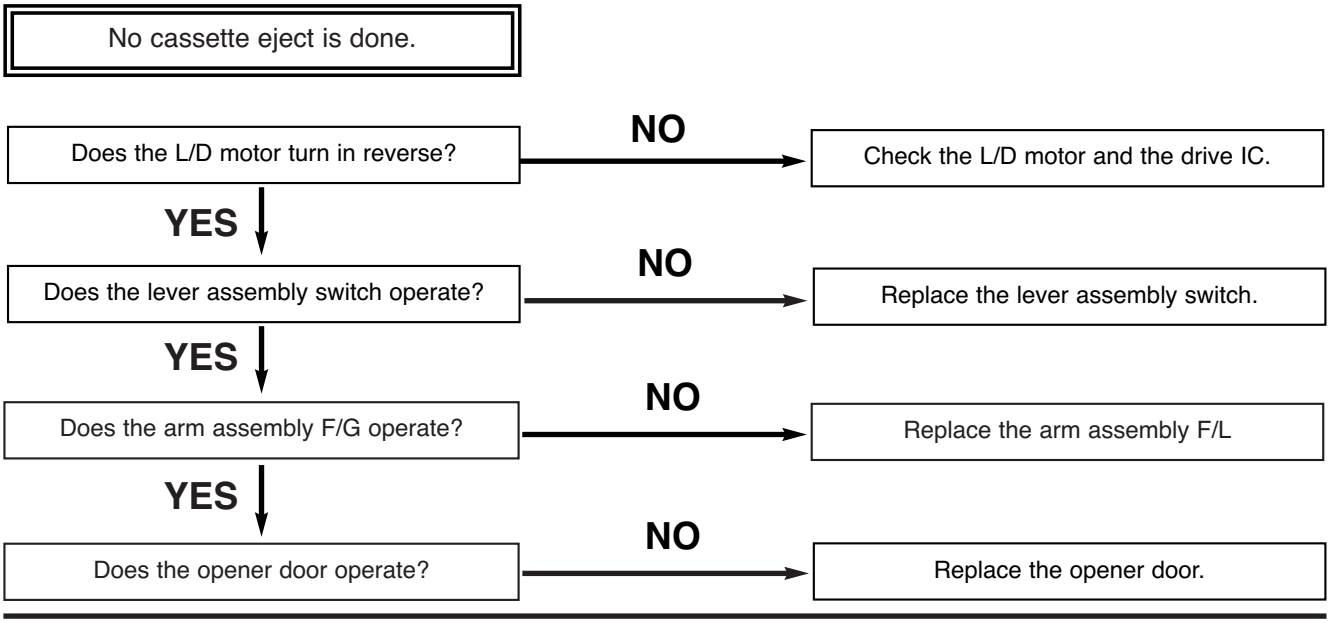

No tape winding is done in play.
Is the pinch roller attached to the Capstan shaft in operation of play?
NO
Check the assembly mode?
YES
Does the T/up reel operate?
NO
Is the Capstan belt hung?
NO
Hang the Capstan belt.
YES
YES
Check the clutch and the idler assembly.
Does the Capstan motor turn?
YES
Does the drum motor turn?
NO
Is normal voltage applied to the capstan motor Vcc1, Vcc2?
YES
YES
Is the DPG, DFG normal?
Is the Vctl terminal voltage of the Capstan motor applied at more than 4V?
NO
Check the Servo, power circuit.
YES
YES
Are the T/up and the reel sensor normal?
Replace the Capstan motor.
YES
NO
Check the Syscon circuit.
Is the Vcc voltage of the drum motor normal?
NO
Check the Syscon circuit.
YES
Is the Vctl terminal voltage of the drum motor at more than 2.3V?
NO
Check the Syscon circuit.
YES
Replace the drum motor.

2. Front Loading Mechanism

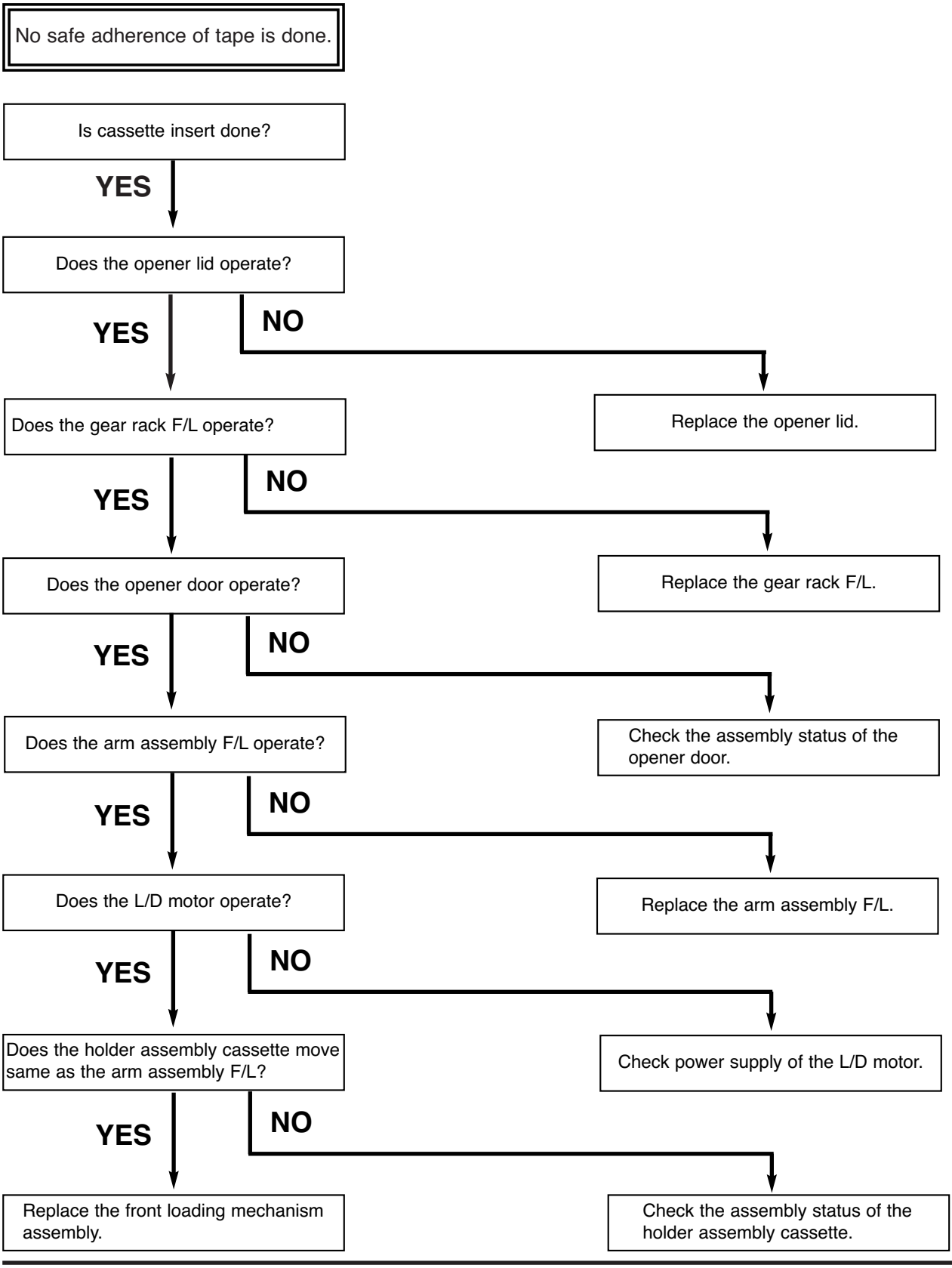
A.


No cassette insert is done.
Does the lever assembly switch operate?
NO
Is the lever assembly switch spring normal?
NO
Add or replace the lever assembly switches spring.
YES
YES
Does the CST IN switch operate normally?
NO
Replace the F/L switch.
YES
Is the Vcc of the main P.C.B assembly?
Check the Syscon circuit.
YES
NO
Is voltage between the cassette switch terminal and the GND on the main P.C.B assembly?
Check the power circuit.
YES
NO
Check the mode switch position and the Syscon circuit.
Is there short between the cassette switch terminal and the GND on the main P.C.B assembly?
YES
NO
Replace the main P.C.B assembly or remove the short part.
Replace the CST IN switch.

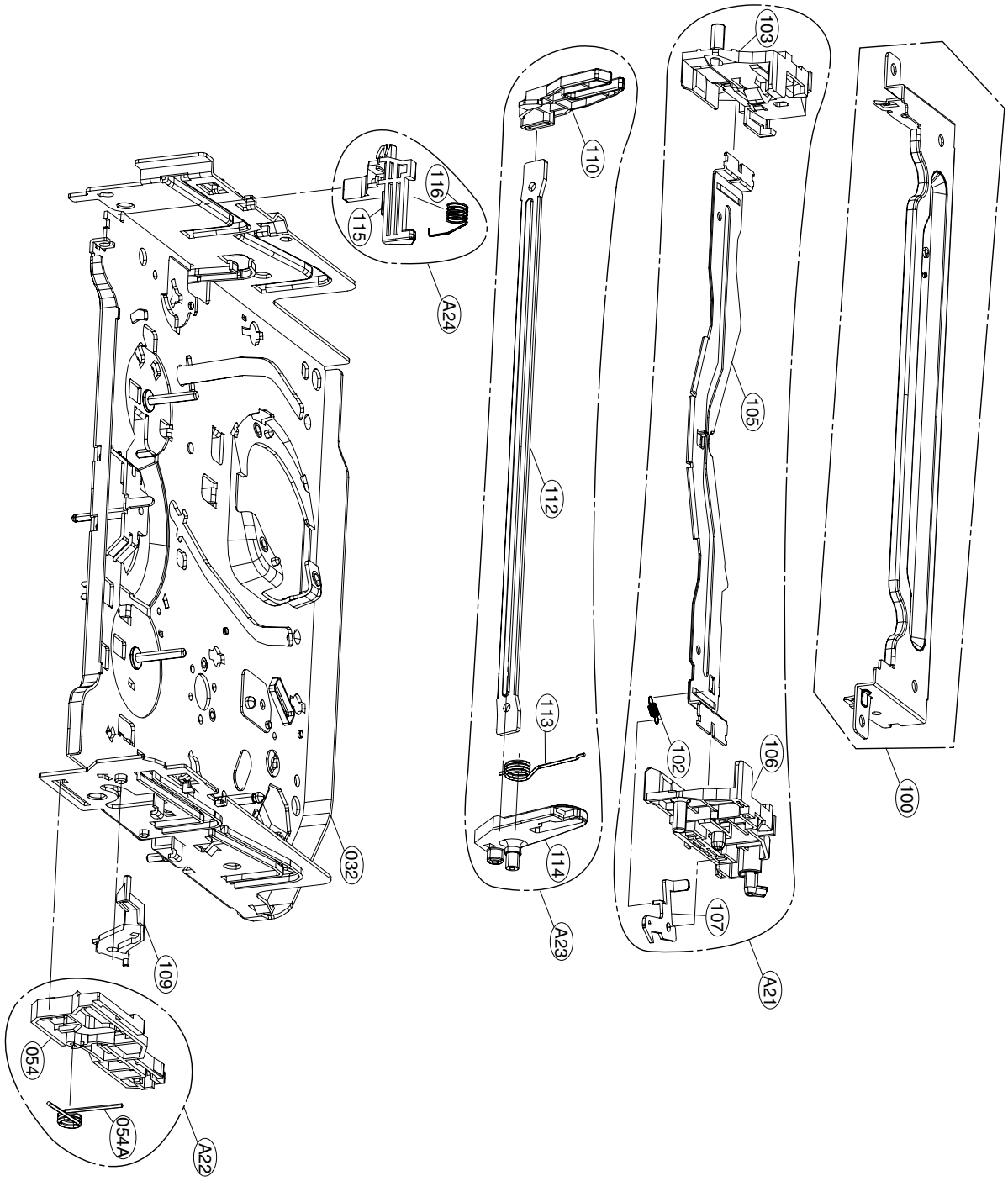
B.



C.

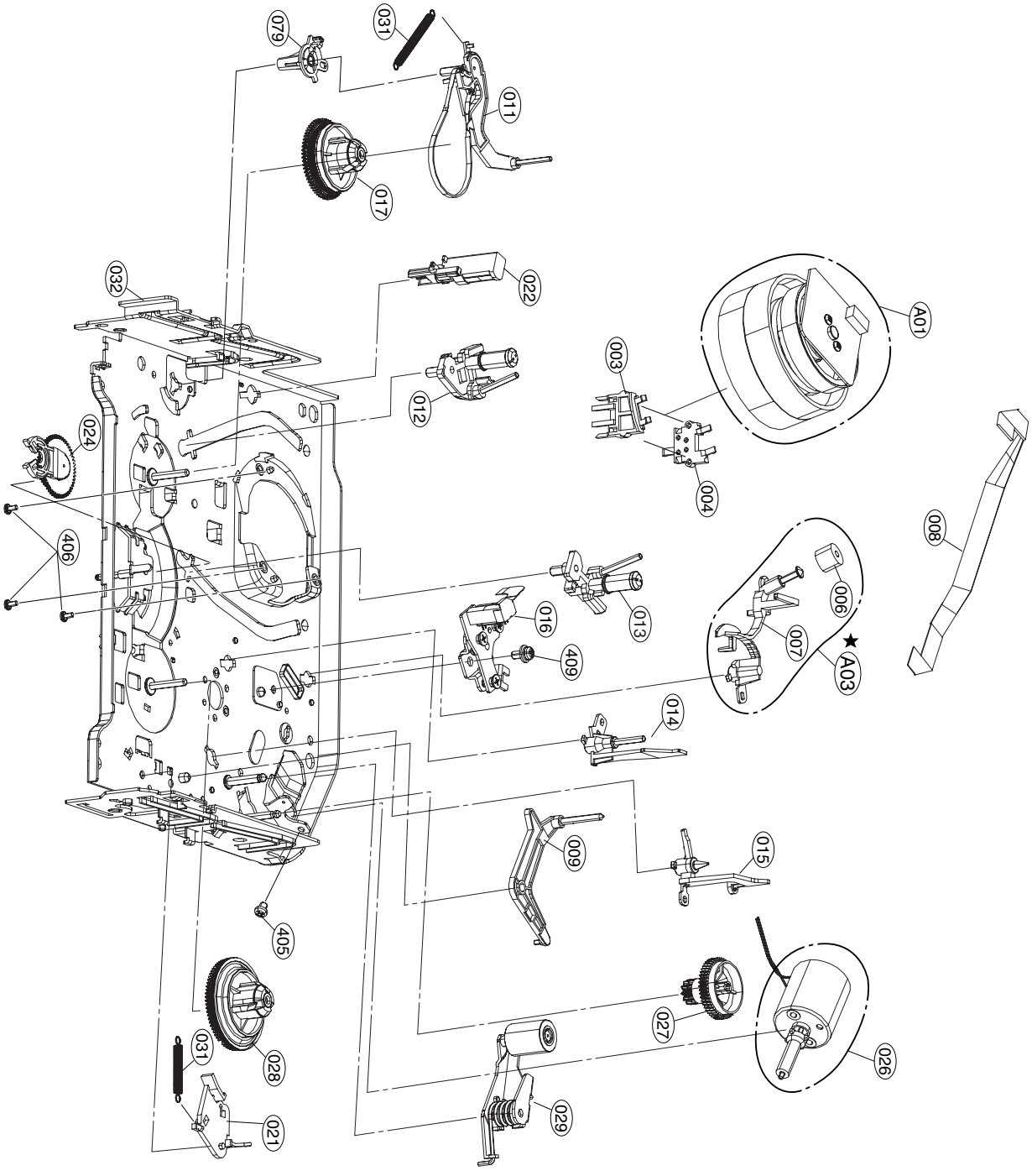

No safe adherence of tape is done.
Is cassette insert done?
YES
Does the opener lid operate?
YES
NO
Replace the opener lid.
Does the gear rack F/L operate?
YES
NO
Replace the gear rack F/L.
Does the opener door operate?
YES
NO
Check the assembly status of the opener door.
Does the arm assembly F/L operate?
YES
NO
Replace the arm assembly F/L.
Does the L/D motor operate?
YES
NO
Check power supply of the L/D motor.
Does the holder assembly cassette move same as the arm assembly F/L?
YES
NO
Check the assembly status of the holder assembly cassette.
Replace the front loading mechanism assembly.

1. Front Loading Mechanism Section

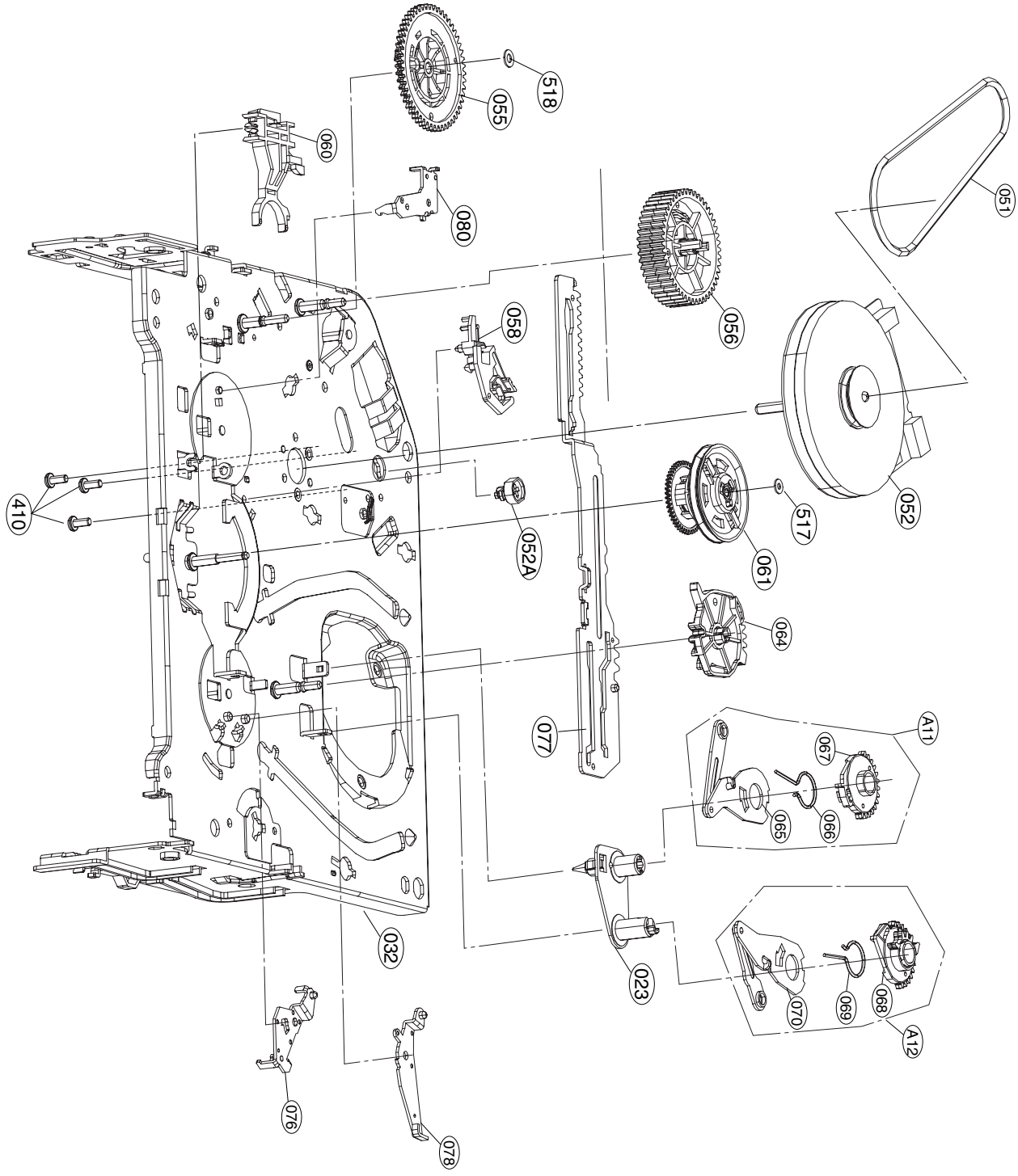


2. Moving Mechanism Section (1)

★ OPTIONAL PART



3. Moving Mechanism Section (2)



MEMO

SECTION 5 MECHANISM OF DVD PART

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3-1. Gear Assembly Feed 5-3
3-2. Gear Assembly Middle.....5-3
3-3. Gear Assembly Rack 5-3

4. Rubber Rear.....5-3

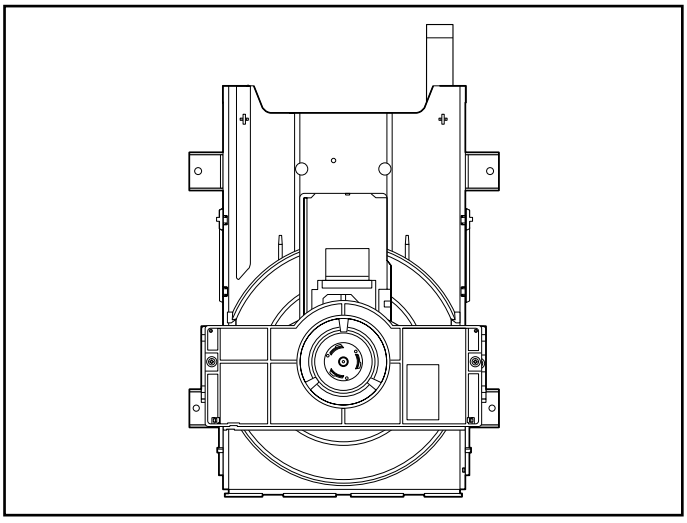
5. Frame Assembly Up/Down 5-4
6. Belt Loading.....5-4
7. Gear Pulley 5-4
8. Gear Loading 5-4
9. Guide Up/Down.....5-4
10. PWB Assembly Loading 5-4
11. Base Main.....5-4

EXPLODED VIEWS

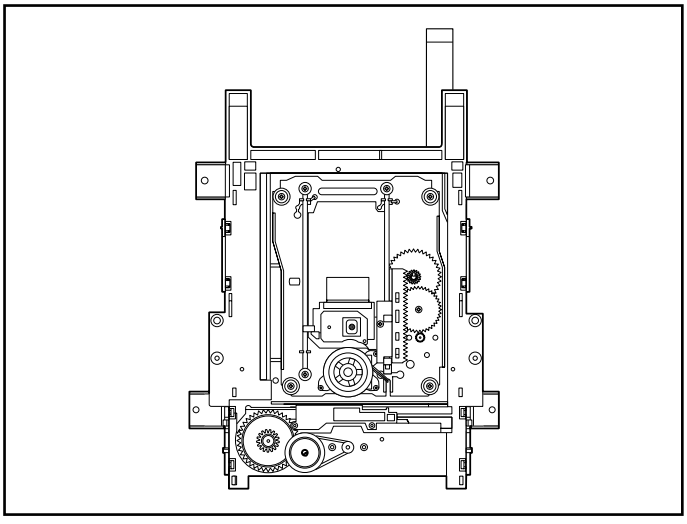
1. Deck Mechanism Exploded View....5-5

DECK MECHANISM PARTS LOCATION

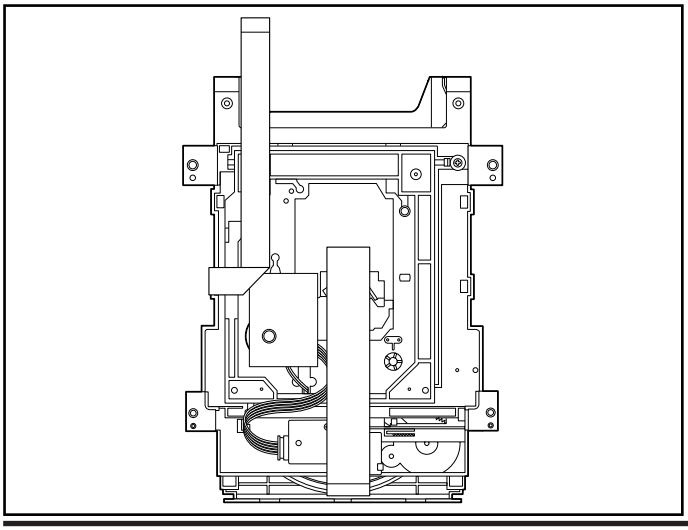
• Top View (With Tray)



• Top View (Without Tray)



• Bottom View



Procedure Starting No.		Parts	Fixing Type	Disassembly	Figure
	1	Holder Clamp	2 Screws, 2 Locking Tabs		5-1
1	2	Clamp Assembly Disc			5-1
1, 2	3	Plate Clamp			5-1
1, 2, 3	4	Magnet Clamp			5-1
1, 2, 3, 4	5	Clamp Upper			5-1
1	6	Tray Disc			5-2
1, 6	7	Base Assembly Sled			5-3
1, 2, 6	8	Gear Assembly Feed	4 Screws, 1 Connector 1 Locking Tabs		5-3
1, 2, 6, 8	9	Gear Middle			5-3
1, 2, 6, 8, 9	10	Gear Assembly Rack	1 Screw		5-3
1, 2, 7	11	Rubber Rear			5-3
1, 2, 7	12	Frame Assembly Up/Down	1 Screw	Bottom	5-4
1, 2	13	Belt Loading	1 Locking Tab		5-4
1, 2 ,13	14	Gear Pulley			5-4
1, 2, 13, 14	15	Gear Loading	1 Locking Tab		5-4
1, 2, 7, 12, 13, 14	16	Guide Up/Down			5-4
1, 2, 13	17	PWB Assembly Loading	1 Locking Tab 1 Hook 2Screw	Bottom	5-4
1, 2, 7, 12, 13, 14, 15, 16, 17	18	Base Main	2 Locking Tabs		5-4

Note

When reassembling, perform the procedure in reverse order.

The “Bottom” on Disassembly column of above Table indicates the part should be disassembled at the Bottom side.

DECK MECHANISM DISASSEMBLY

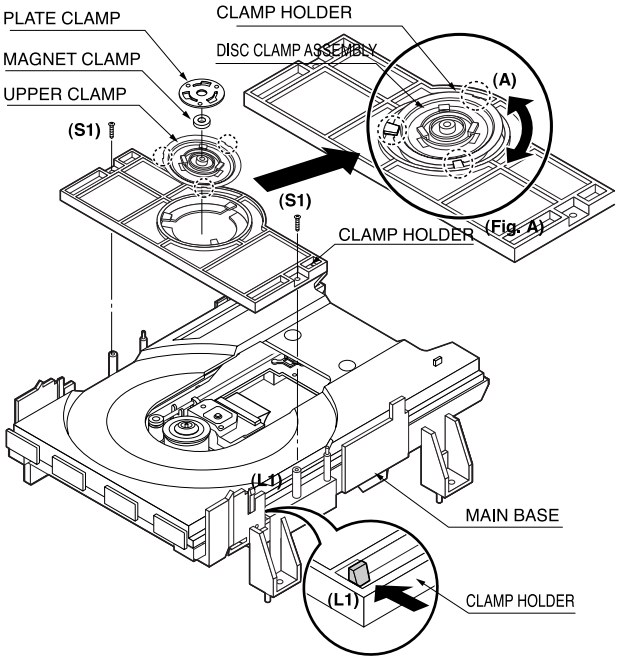


Fig. 5-1

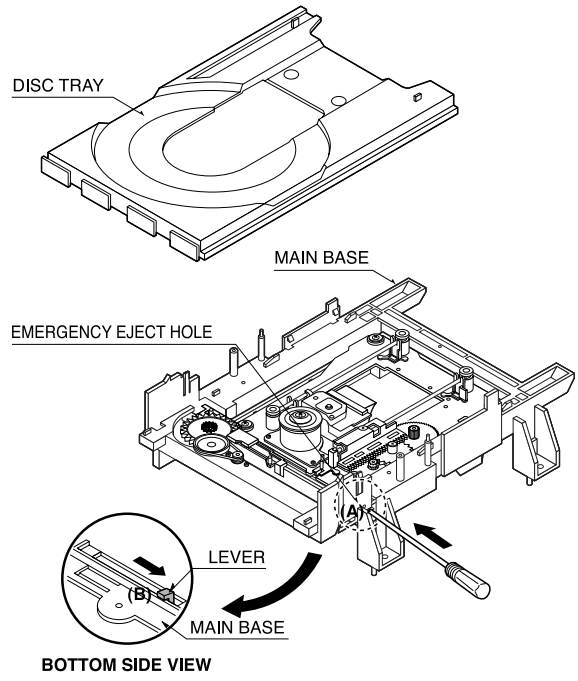


Fig. 5-2

1. Holder Clamp (Fig. 5-1)

1) Release 2 Screws(S1).
2) Unhook 2 Locking Tabs(L1).
3) Lift up the Holder Clamp and then separate it from the Base Main.

1-1. Clamp Assembly Disc

1) Place the Clamp Assembly Disc as Fig. (A)
2) Lift up the Clamp Assembly Disc in direction of arrow(A).
3) Separate the Clamp Assembly Disc from the Holder Clamp.

1-1-1. Plate Clamp

1) Turn the Plate Clamp to counterclockwise direction and then lift up the Plate Clamp.

1-1-2. Magnet Clamp

1-1-3. Clamp Upper

2. Tray Disc (Fig. 5-2)

1) Insert and push a Driver in the emergency eject hole(A) at the right side, or put the Driver on the Lever(B) of the Gear Emergency and pull the Lever(B) in direction of arrow so that the Tray Disc is ejected about 15~20mm.
2) Pull the Tray Disc until it is separated from the Base Main completely.

DECK MECHANISM DISASSEMBLY

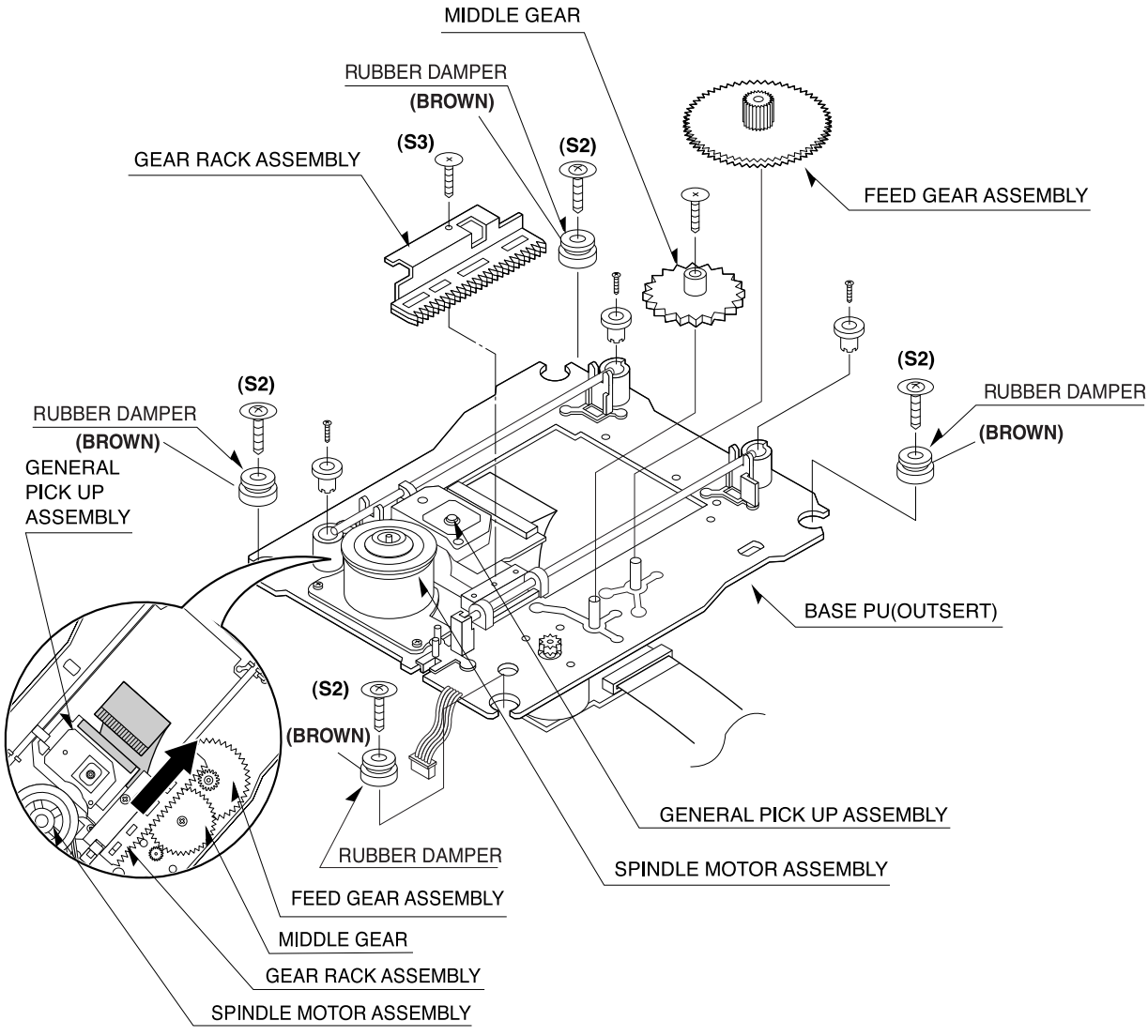


Fig. 5-3

3. Base Assembly Sled (Fig. 5-3)

1) Release 4 Screw(S2).
2) Disconnect the FFC Connector(C1)

3-1. Gear Assembly Feed

3-2. Gear Middle

3-3. Gear Assembly Rack

1) Release the Scerw(S3)

4. Rubber Rear (Fig. 5-3)

DECK MECHANISM DISASSEMBLY

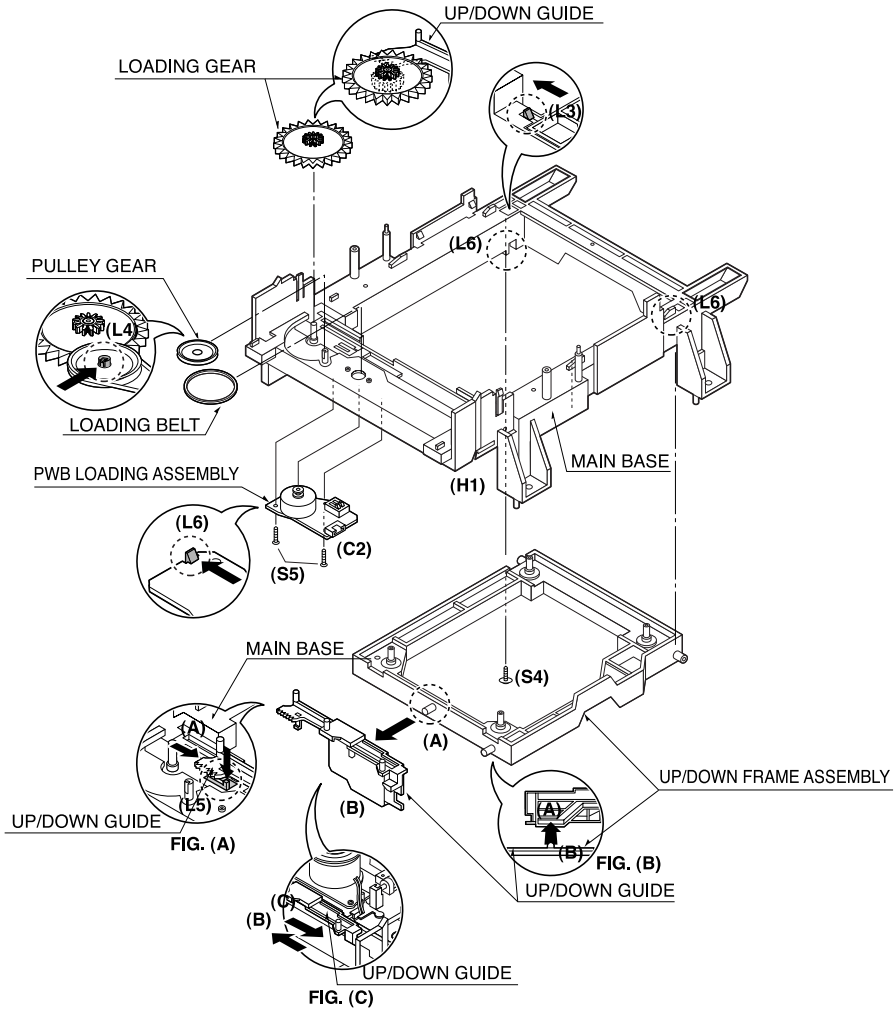


Fig. 5-4

5. Frame Assembly Up/Down (Fig. 5-4)

Note

Put the Base Main face down(Bottom Side)

1) Release the Screw(S4)
2) Unlock the Locking Tab(L3) in direction of arrow and then lift up the Frame Assembly Up/Down to separate it from the Base Main.

Note

- When reassembling move the Guide Up/Down in direction of arrow(C) until it is positioned as Fig.(C).
- When reassembling insert (A) portion of the Frame Assembly Up/Down in the (B) portion of the Guide Up/Down as Fig.(B)

6. Belt Loading(Fig. 5-4)

Note

Put the Base Main on original position(Top Side)

7. Gear pulley (Fig. 5-4)

1) Unlock the Locking Tab(L4) in direction of arrow(B) and then separate the Gear Pulley from the Base Main.

8. Gear Loading (Fig. 5-4)

9. Guide Up/Down (Fig. 5-4)

1) Move the Guide Up/Down in direction of arrow(A) as Fig.(A)
2) Push the Locking Tab(L5) down and then lift up the Guide Up/Down to separate it from the Base Main.

Note

When reassembling place the Guide Up/Down as Fig.(C) and move it in direction arrow(B) until it is locked by the Locking Tab(L5). And confirm the Guide Up/Down as Fig.(A)

10. PWB Assembly Loading (Fig. 5-4)

Note

Put the Base Main face down(Bottom Side)

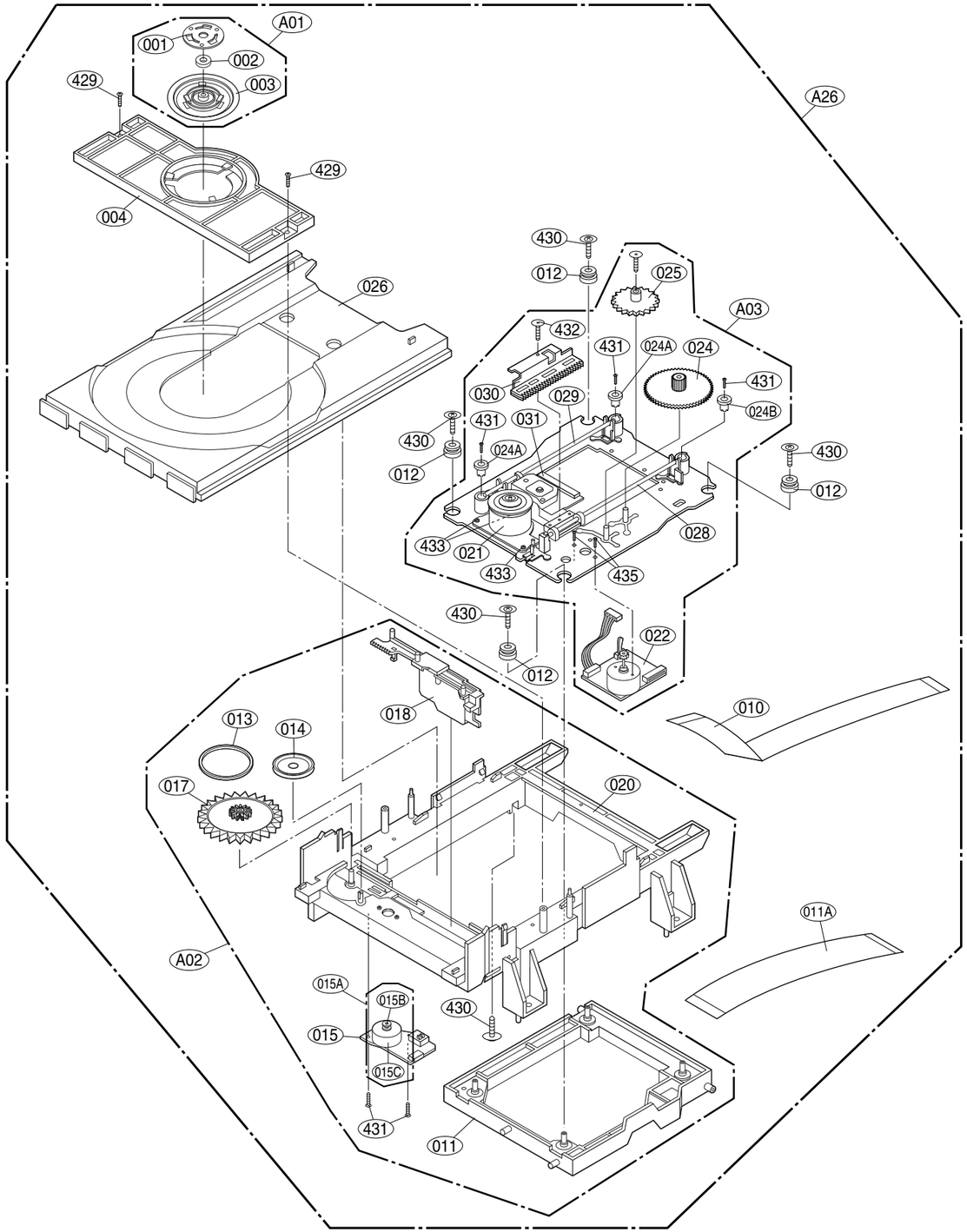
1) Release 2 Screws(S5)
2) Unlock the Loading Motor (C2) from the Hook (H1) on the Base Main.
3) Unlock 2 Locking Tabs(L6) and separate the PWB Assembly Loading from the Base Main.

11. Base Main(Fig. 5-4)

MEMO

EXPLODED VIEWS

1. Deck Mechanism Exploded View



MEMO

MEMO

NOTES) ⚠ Warning Parts that are shaded are critical With respect to risk of fire or electricial shock.

SECTION 6 REPLACEMENT PARTS LIST

TOSHIBA MODEL : SD-V65HTSC **NSP : Not avallable as service parts.**

RUN DATE : 28-JUNE-04

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		*** INDIVIDUAL PARTS ***					
		274	AF000545	255-249C	PLATE	JACK GND (OC 3800S)	
		276	AF000602	4930RL0001A	HOLDER	HOME LH-C641M MOLD FULL TIMER	
		277	AF000610	4940R-V056A	KNOB	HOME COMBI-TOSHIBA MOLD VOL	
⚠		300	79096464	6410RAHP02D	POWER CORD	HIT-110/NISPT-2X18AWG(WITH COR	
		412	79097904	353-046N	SCREW,DRAWING	SPECIAL(3X8 BK.)	
		457	79097907	353-051E	SCREW,DRAWING	SPECIAL (3X12)	
		467	79096043	353-051G	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUN	
		469	AF000544	1SZZR-0081A	SCREW,DRAWING	+ 2 D0.3 L24 MSWR3/FN LH-C444	
		470	AF000355	353-051K	SCREW,DRAWING	+ 2 D3.0 - MSWR3/FN L23.5 X13.	
		471	AF000354	353-051J	SCREW,DRAWING	+ 2 D3.0 L6.5 MSWR3/FN TB ROUN	
		473	AF000719	1SZZR-0080A	SCREW,DRAWING	+ 2 D6.3 L16.0 MSWR3/FN LH-C44	
		*** PACKING ACCESSORY ***					
		801	AF000742	3835RH0033U	INSTRUCTION ASSEMBLY	HOME THEATER LH-C644M NA1CTTS	
		802	AF000750	3890RCC132D	BOX	LH-C644M NA1CTTS DW2 TOSHIBA	
		803	AF000589	3920RCE088A	PACKING	HOME LH-C444 200 AUDIO	
		804	79096262	292-053B	BAG	SOFT(MIDI)	NSP
		808	79096451	534-008C	BATTERY,MANGANESE	AAAM(R03) SEOTONG 1-5 V - 1PA	
		806	AF000645	6850R-CAA8E	CABLE,COAXIAL	RF CABLE NTSC KOREA/AMERICA/JA	
		810	AF000650	6851R-0039B	CABLE ASSEMBLY	NTSC RF 1.8M + 1W YELLOW 1.8M	
		811	AF000648	6850R-PAA8F	CABLE,COAXIAL	1 WAY COAXIAL DT_HY_HIT_SEIL 1	
		812	AF000649	6850R-PBA8H	CABLE,COAXIAL	2 WAY COAXIAL RED_WHITE DT_HY	
		822	AF000647	6850R-KAEX1	CABLE,COAXIAL	NLB1-91-001 AWG221L 3.5M 3EA,	
		824	79097555	5010R-L002B	ANTENNA,LOOP	S0160BL-09 (LS0160BL-X000009-0	
		825	AF000615	563-655A	ANTENNA,LEAD	LEAD NAMIL 300MM FM 75OHM	
		*** REMOTE CONTROLLER ***					
		900	AF000642	6710CAAZ01D	REMOTE CONTROLLER	KIE 57KEY KIE LH-C444M TOSHIBA	
		*** PWB(PCB) ASSEMBLY , TOTAL POWER ***					
		A48	AF000725	3501R-8300A	BOARD ASSEMBLY	HOME THEATER LH-C641M SMPS	
		A48A	AF000783	6871R-8300A	PWB(PCB) ASSEMBLY,TOTAL	LH-C641M HTC SMPS	
		263	AF000572	3550R-4067A	COVER	VCR INSULATION(PS-BK-F654) OTH	
		264	AF000571	3550R-4066A	COVER	VCR SMPS SHIELD(SLIM-HTC) PRES	
		266	AF000551	3110R-V017A	CASE	SLIM-HTC PRESS .	
		453	79097905	353-051A	SCREW,DRAWING	SPECIAL	
		468	AF000354	353-051J	SCREW,DRAWING	+ 2 D3.0 L6.5 MSWR3/FN TB ROUN	
		BC101	79091008	636-004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P	
		BC111	79091008	636-004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P	
		BD101	AF000701	0DRVH00050A	DIODE,RECTIFIERS	GBU8J VISHAY BK GBU 600V 8A 20	
⚠		C101	79096244	624-088L	CAPACITOR,DRAWING	435D SUNIL ELECTRONICS 0.1UF/275V	
⚠		C102	79096244	624-088L	CAPACITOR,DRAWING	435D SUNIL ELECTRONICS 0.1UF/275V	
		C103	AF000693	0CE687RR640	CAPACITOR,FIXED ELECTROLYTIC	680UF KMH,HE,GU 250V 20% FM10	
		C104	79096279	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C105	79096279	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C106	79096279	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C107	79096279	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C110	79092033	0CQ1031Y519	CAPACITOR,FIXED FILM	0.01UF D 630V 10% PE NI TP5	
		C111	79096121	0CE1076K618	CAPACITOR,ELECTROLYTIC	100UF SMS 50V M FL TP5	
		C112	AF000514	0CQ4732L439	CAPACITOR,FIXED FILM	0.047UF S 63V 5% M/PE NI TP5	
⚠		C113	AF000697	0CN1520F668	CAPACITOR,TUBULAR(HIGH DIELEC)	1500P 16V M X TA26	
⚠		C114	79096166	0CQ2721N409	CAPACITOR,FIXED FILM	0.0027UF D 100V 5% PE TP5	
		C115	79092001	0CE1064K638	CAPACITOR,FIXED ELECTROLYTIC	10M SRA 50V M FM5 TP(5)	
		C117	79096243	624-087D	CAPACITOR	HI-VOL 470P/1KVDC SMPS SAMHWA	
		C120	79092033	0CQ1031Y519	CAPACITOR,FIXED FILM	0.01UF D 630V 10% PE NI TP5	
		C121	79092035	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
⚠		C122	AF000514	0CQ4732L439	CAPACITOR,FIXED FILM	0.047UF S 63V 5% M/PE NI TP5	
		C123	AF000699	0CQ4711N449	CAPACITOR,FIXED FILM	470PF D 100V 5% PP TP5	
		C124	AF000698	0CN1820F668	CAPACITOR TUBULA(HIGH DIELE)	1800P 16V M X TA26	
		C125	79092001	0CE1064K638	CAPACITOR,FIXED ELECTROLYTIC	10M SRA 50V M FM5 TP(5)	
		C127	79096461	624-087H	CAPACITOR	HIGH-VOL 220PF/1KV CERAMIC	
		C130	790092005	0CE2276F638	CAPACITOR,ELECTROLYTIC	220U SMS 16V M FM5 TP(5)	
		C130	79092005	0CE2276F638	CAPACITOR,ELECTROLYTIC	220U SMS 16V M FM5 TP(5)	
		C131	AF000664	624-087J	CAPACITOR	HIGH-VOL 102PF/1KV CERAMIC	
		C132	AF000502	0CE228ZK610	CAPACITOR,FIXED ELECTROLYTIC	2200UF LXV DOWN 50V 20% FL BUL	
		C133	AF000502	0CE228ZK610	CAPACITOR,FIXED ELECTROLYTIC	2200UF LXV DOWN 50V 20% FL BUL	
		C136	AF000691	0CE1043K638	CAPACITOR,FIXED ELECTROLYTIC	0.1UF SRE,SE 50V 20% FM5 TP 5	
		C137	79092035	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C138	79092035	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C140	79096130	0CE108EH610	CAPACITOR,FIXED ELECTROLYTIC	1000UF KMG 25V 20% BULK FL	
		C141	AF000623	624-082G	CAPACITOR,FIXED ELECTROLYTIC	CE 470UF/25V SHL(10*12.5)T/P	

TOSHIBA MODEL : SD-V65HTSC **NSP : Not available as service parts.**

RUN DATE : 28-JUNE-04

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C142	79096271	0CE228BF630	CAPACITOR,FIXED ELECTROLYTIC	2200UF KME TYPE 16V 20% FM5 BU	
		C144	79096271	0CE228BF630	CAPACITOR,FIXED ELECTROLYTIC	2200UF KME TYPE 16V 20% FM5 BU	
		C146	79096460	624-082H	CAPACITOR	CE 1000UF/10V SHL(10*12.5)T/P	
		C147	79096460	624-082H	CAPACITOR	CE 1000UF/10V SHL(10*12.5)T/P	
		C148	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		D101	79096002	0DD010009CA	DIODE,RECTIFIERS	EG01C TP SANKEN - - - - - -	
		D102	AF000516	0DR180209AA	DIODE,RECTIFIERS	ERA18-02KFRB TP FUJI DO204AL 2	
		D103	AF000516	0DR180209AA	DIODE,RECTIFIERS	ERA18-02KFRB TP FUJI DO204AL 2	
		D104	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D111	79096002	0DD010009CA	DIODE,RECTIFIERS	EG01C TP SANKEN - - - - - -	
		D112	79096001	0DD010009AC	DIODE,RECTIFIERS	EU01W(R-FORM) TP SANKEN	
		D113	79096001	0DD010009AC	DIODE,RECTIFIERS	EU01W(R-FORM) TP SANKEN	
		D114	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D122	AF000517	0DRFC00171A	DIODE,RECTIFIERS	FFPF20U20STU FAIR CHILD ST TO2	
		D122	AF000517	0DRFC00171A	DIODE,RECTIFIERS	FFPF20U20STU FAIR CHILD ST TO2	
		D122	AF000700	0DRFC00191A	DIODE,RECTIFIERS	FFPF30U20STU FAIR CHILD ST TO2	
		D123	79096001	0DD010009AC	DIODE,RECTIFIERS	EU01W(R-FORM) TP SANKEN	
		D124	79096001	0DD010009AC	DIODE,RECTIFIERS	EU01W(R-FORM) TP SANKEN	
		D125	79096001	0DD010009AC	DIODE,RECTIFIERS	EU01W(R-FORM) TP SANKEN	
		D126	AF000517	0DRFC00171A	DIODE,RECTIFIERS	FFPF20U20STU FAIR CHILD ST TO2	
		D127	AF000519	0DRSA00020A	DIODE,RECTIFIERS	FMB-G24H LF651 SANKEN BK NON	
		D127	AF000515	0DR104510AB	DIODE,RECTIFIERS	B10A45V1 NO CUT KEC ST TO220 4	
		D129	AF000519	0DRSA00020A	DIODE,RECTIFIERS	FMB-G24H LF651 SANKEN BK NON	
		D129	AF000515	0DR104510AB	DIODE,RECTIFIERS	B10A45V1 NO CUT KEC ST TO220 4	
⚠		F101	AF000702	0FS8001B51B	FUSE,SLOW BLOW	FUSE 8000MA 250 V 5.2X20 CY/GL	
		F102	79097595	GIRH200000B	IC,ROHM	ICP-N20 T104 TP IC DETACT	
		FH01	79098790	586-008B	HOLDER	FUSE CLIP TP SINSUNG	
		FH02	79098790	586-008B	HOLDER	FUSE CLIP TP SINSUNG	
⚠		IC101	AF000708	0IPMGSK015A	IC,POWER MANAGEMENT	STR-X6757 SANKEN 7PIN TO3PF-7L	
⚠		IC102	79094030	657-063A	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC103	79094010	0IKE431000A	IC,KEC	KIA431 3 PIN TP	
		IC104	AF000709	0IPMGSK016A	IC,POWER MANAGEMENT	STR-W6753 SANKEN 6PIN T0220F-6	
⚠		IC105	79094030	657-063A	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC106	79094010	0IKE431000A	IC,KEC	KIA431 3 PIN TP	
⚠		L101	AF000621	6200JB8013N	FILTER(CIRC),EMC	SQE2828 KWANGSUNG BK 30MH LH-A	
⚠		L102	AF000620	6200JB8009X	FILTER(CIRC),EMC	LINE FILTER(WITH BASE) SAMWHA 15MH	
		L121	79096241	6140RCC002A	COIL,CHOKE	20UH/6A BAR CORE 20UH KWANGS	
		L122	79098794	633-088D	COIL,CHOKE	20UH KWANGSUNG LEAD CUT	
		L123	79098794	633-088D	COIL,CHOKE	20UH KWANGSUNG LEAD CUT	
		L124	79098794	633-088D	COIL,CHOKE	20UH KWANGSUNG LEAD CUT	
		PSV01	AF000758	561-7150	CONNECTOR (CIRC),WAFER	GIL-G-15P-S3T2-E LG CABLE 15P	
		PSW01	AF000759	561-715J	CONNECTOR (CIRC),WAFER	GIL-G-10P-S3T2-E LG CABLE 10PI	
⚠		PW101	79096066	561-292B	CONNECTOR(CIRC),DRAWING	GP390 LGC 3P 3.96 STRAIGHT SN	
		R100	79093009	0RD1504H632	RESISTOR,FIXED CARBON FILM	1.5M OHM 1/2 W 5.00% MF10	
		R104	79093012	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R105	79093012	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R107	79093012	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R108	79093012	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R111	79093055	0RS5602K619	RESISTOR,FIXED METAL OXIDE FIL	56K OHM 2 W 5.00% TR	
		R112	79097164	0RD0102F608	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5% TA26	
		R113	79093015	0RD3901F608	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5% TA26	
		R114	79098761	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R115	79093003	0RD1000F608	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5% TA26	
		R116	AF000717	0RS0150K619	RESISTOR,FIXED METAL OXIDE FIL	0.15 OHM 2 W 5% TR	
		R117	AF000717	0RS0150K619	RESISTOR,FIXED METAL OXIDE FIL	0.15 OHM 2 W 5% TR	
		R118	79093006	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R121	AF000543	0RS1803K619	RESISTOR,FIXED METAL OXIDE FIL	180K OHM 2 W 5% TR	
		R122	79097164	0RD0102F608	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5% TA26	
		R123	79093003	0RD1000F608	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5% TA26	
		R124	79098761	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R125	79096339	0RD2700F608	RESISTOR,FIXED CARBON FILM	270 OHM 1/6 W 5% TA26	
		R126	79096376	0RS0350K619	RESISTOR,FIXED METAL OXIDE FIL	0.35 OHM 2 W 5.00% TR	
		R127	79093006	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R128	79093006	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R129	79093006	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R130	79093006	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R132	79093011	0RD2200F608	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R133	79098761	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R134	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R135	79096375	0RN3301F408	RESISTOR,FIXED METAL FILM	3.3K OHM 1/6 W 1% TA26	
		R136	79096374	0RN2701F408	RESISTOR,FIXED METAL FILM	2.7K OHM 1/6 W 1% TA26	
		R137	79096339	0RD2700F608	RESISTOR,FIXED CARBON FILM	270 OHM 1/6 W 5% TA26	
		R138	AF000542	0RS1800K619	RESISTOR,FIXED METAL OXIDE FIL	180 OHM 2 W 5.00% TR	
		R152	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R153	AF000713	0RD3302F608	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5% TA26	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R154	AF000541	0RN2402F408	RESISTOR,FIXED METAL FILM	24000 OHM 1/6 W 1.00% TA26	
		R155	AF000716	0RN1201F408	RESISTOR,FIXED METAL FILM	1.2K OHM 1/6 W 1% TA26	
		R156	79093016	0RD4700F608	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5% TA26	
		R157	79098760	0RD1501F608	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5% TA26	
		R158	AF000712	0RD1200F608	RESISTOR,FIXED CARBON FILM	120 OHM 1/6 W 5% TA26	
		R171	79093005	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R172	79093005	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R173	79093005	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R184	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R185	79096566	0RD2202F608	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5% TA26	
⚠		T101	AF000766	6170RNGW17V	TRANSFORMER,SMPS[COIL]	EER4220S SAMWHA , ACE 300 UH	
⚠		T102	AF000619	6170RNGW16C	TRANSFORMER,SMPS[COIL]	EER3530 SOOJUNG 580UH	
		TH01	AF000626	6322B62204A	THERMISTOR,PTC	NTPAN4R0LDRB0 MURATA 4.0OHM 15	
⚠		V101	79098795	656-004C	VARISTOR,DRAWING	SVC681D-10A SAMHWA 4.O CUT	
		ZD121	AF000007	0DZ332609FA	DIODE,ZENER	UZ-3.3BSB 26MM TP PYUNG CHANG	
		ZD121	79096315	0DZ332609FA	DIODE,ZENER	UZ-3.3BSB 26MM TP PYUNG CHANG	
		*** BOARD ASSEMBLY , MAIN ***					
		A46	AF000726	3501R-8821D	BOARD ASSEMBLY	HOME THEATER LH-C444M VCR MAI	
		275	AF000601	4930R-0381A	HOLDER	END(S)	
		323	AF000341	3111R-0089E	CASE ASSEMBLY	PRE AMP SLIM COMBI C-CORE A NO	
		C163	79098705	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C164	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C165	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C166	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C167	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C168	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C169	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C170	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C171	AF000503	0CE4764K638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 50V M FM5 TP(5)	
		C172	AF000503	0CE4764K638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 50V M FM5 TP(5)	
		C173	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C174	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C175	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C176	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C177	79098705	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C179	AF000661	0CE1076K638	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 50V 20% FM5 TP 5	
		C180	79096277	0CE4764H638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 25V M FM5 TP(5)	
		C181	79096277	0CE4764H638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 25V M FM5 TP(5)	
		C301	79096304	0CQ2232L559	CAPACITOR,FIXED FILM	0.022UF S 63V 10% PP NI TP5	
		C302	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C303	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C304	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C305	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C306	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C308	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C310	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C311	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C312	79096273	0CE3364F638	CAPACITOR,ELECTROLYTIC	33M SRA 16V M FM5 TP(5)	
		C313	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C314	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C315	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C316	79096285	0CH1222K516	CHIP CAPA CERAMIC M/L H.D F/S	2200P 50V K B 2.0X1.25 R/TP	
		C317	79096291	0CH1821K516	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% B(5YP) 2012 R/TP	
		C318	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C319	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C320	79096299	0CH4391K416	CAPACITOR,CHIP[CERAMIC M/L TC	390PF 50V J NP0 2012 R/TP	
		C321	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C322	79096292	0CH4101K416	CAPA,CHIP CERAMIC M/L T.C F/S	100P 50V J NP0 2.0*1.25 R/TP	
		C323	79096292	0CH4101K416	CAPA,CHIP CERAMIC M/L T.C F/S	100P 50V J NP0 2.0*1.25 R/TP	
		C324	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C325	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C327	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C328	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C329	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C330	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C331	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C332	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C333	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C334	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C335	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C336	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C337	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C338	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C339	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C340	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C341	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C342	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C343	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C344	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C346	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C347	79096290	0CH1473K516	CHIP CAPA CERAMIC M/L H.D F/S	0.047U 50V K X7R 2.0X1.2 R/TP	
		C348	79096290	0CH1473K516	CHIP CAPA CERAMIC M/L H.D F/S	0.047U 50V K X7R 2.0X1.2 R/TP	
		C349	79096288	0CH1333K566	CAPACITOR,CHIP[CERAMIC M/L HD	0.0330UF 50V K X7R(X) 2012 R/T	
		C350	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C351	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C354	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C355	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C360	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C361	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C362	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C370	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C500	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C501	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C502	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C503	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C504	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C505	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C508	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C509	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C510	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C511	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C514	79096296	0CH4240K416	CAPACITOR,CHIP[CERAMIC M/L TC	24PF 50V J NP0 2012 R/TP	
		C515	AF000004	0CH4270K416	CHIP CAPA CERAMIC M/L T.C F/S	27P 50V J COG 2.0X1.2 R/TP	
		C515	79096297	0CH4270K416	CHIP CAPA CERAMIC M/L T.C F/S	27P 50V J COG 2.0X1.2 R/TP	
		C519	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C520	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C521	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C525	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C526	AF000503	0CE4764K638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 50V M FM5 TP(5)	
		C531	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C534	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C535	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C542	79096302	0CH4681K416	CAPA,CHIP CERAMIC M/L T.C F/S	680PF 50V J NP0 2012 R/TP	
		C543	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C544	79096290	0CH1473K516	CHIP CAPA CERAMIC M/L H.D F/S	0.047U 50V K X7R 2.0X1.2 R/TP	
		C545	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C546	79096277	0CE4764H638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 25V M FM5 TP(5)	
		C551	79096287	0CH1333H516	CHIP CAPA CERAMIC M/L H.D F/S	0.033U 25V K B 2.0X1.25 R/TP	
		C552	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C561	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C566	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C567	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C568	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C569	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C570	79096294	0CH4180K416	CHIP CAPA CERAMIC M/L T.C F/S	18P 50V J C 2.0X1.2 R/TP	
		C571	79096294	0CH4180K416	CHIP CAPA CERAMIC M/L T.C F/S	18P 50V J C 2.0X1.2 R/TP	
		C572	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C573	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C574	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C577	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C578	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C579	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C580	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C581	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C582	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C583	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C584	79096276	0CE4764C638	CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C585	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C586	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C588	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C589	79096295	0CH4221K416	CAPA,CHIP CERAMIC M/L T.C F/S	220P 50V J 2.0X1.25 R/TP	
		C590	79096284	0CH1105F946	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C592	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C593	79096300	0CH4471K416	CAPA,CHIP CERAMIC M/L T.C F/S	470P 50V J 2.0*1.25 R/TP	
		C594	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C595	79096294	0CH4180K416	CHIP CAPA CERAMIC M/L T.C F/S	18P 50V J C 2.0X1.2 R/TP	
		C596	79096600	0CH4150K416	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 2.0X1.2 R/TP	
		C597	79096302	0CH4681K416	CAPA,CHIP CERAMIC M/L T.C F/S	680PF 50V J NP0 2012 R/TP	
		C598	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C599	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C601	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C602	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C611	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C612	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C613	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C614	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C615	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C616	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C617	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C618	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C701	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C702	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C703	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C704	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C706	79096600	0CH4150K416	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 2.0X1.2 R/TP	
		C707	79096600	0CH4150K416	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 2.0X1.2 R/TP	
		C708	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C712	79096611	0CH1152K516	CAPACITOR,FIXED CERAMIC(Temp.c	1500PF 50V 10% B(5YP) 2012 R/T	
		C730	AF000501	0CE228ED610	CAPACITOR,FIXED ELECTROLYTIC	2200UF KMG,RD 10V 20% FL BULK	
		C731	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C732	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C801	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C803	79096280	0CH1102K516	CHIP CAPA CERAMIC M/L H.D F/S	1000P 50V K B 2.0X1.25 R/TP	
		C804	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		C806	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C807	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C808	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C816	79096269	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C821	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C822	79096285	0CH1222K516	CHIP CAPA CERAMIC M/L H.D F/S	2200P 50V K B 2.0X1.25 R/TP	
		C823	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C825	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C826	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C827	79096284	0CH1105F946	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C828	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C829	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C830	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C831	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C832	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C833	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C834	79096289	0CH1472K516	CAPA,CHIP CERAMIC M/L H.D F/S	4700P 50V K B 2.0*1.25 R/TP	
		C836	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C838	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C839	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C840	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C841	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C842	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C843	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C844	79096289	0CH1472K516	CAPA,CHIP CERAMIC M/L H.D F/S	4700P 50V K B 2.0*1.25 R/TP	
		C845	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C846	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C847	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C848	79096284	0CH1105F946	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C851	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C853	79096280	0CH1102K516	CHIP CAPA CERAMIC M/L H.D F/S	1000P 50V K B 2.0X1.25 R/TP	
		C854	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		C866	79096269	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C871	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C872	79096301	0CH4560K416	CHIP CAPA CERAMIC M/L T.C F/S	56P 50V J NPO 2.0X1.25 R/TP	
		C873	79096269	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C874	79096284	0CH1105F946	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C875	79096288	0CH1333K566	CAPACITOR,CHIP[CERAMIC M/L HD	0.0330UF 50V K X7R(X) 2012 R/T	
		C876	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C877	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C878	79096301	0CH4560K416	CHIP CAPA CERAMIC M/L T.C F/S	56P 50V J NPO 2.0X1.25 R/TP	
		C879	79096269	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C880	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C881	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C882	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C883	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C884	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C885	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C886	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C887	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C888	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	

TOSHIBA MODEL : SD-V65HTSC **NSP : Not available as service parts.**

RUN DATE : 28-JUNE-04

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C889	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		CS501	AF000450	6600M000026	SWITCH,PUSH	MPU12970MLB0 VCR CST IN S/W MI	
		D161	79096008	0DR104009AB	DIODE,RECTIFIERS	RL104 R. TP GULF SEMICONDUCTOR	
		D163	79096008	0DR104009AB	DIODE,RECTIFIERS	RL104 R. TP GULF SEMICONDUCTOR	
		D165	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D802	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		ES501	AF000604	4931R-0078C	HOLDER ASSEMBLY	VCR DECK/MECHA END(S)	
		ES502	AF000604	4931R-0078C	HOLDER ASSEMBLY	VCR DECK/MECHA END(S)	
		F616	79091006	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F617	79091006	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F618	79091006	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		FL301	79096463	633-032K	COIL,IFT	NON BIAC OSC,1CHIP 5V(KS-75M)	
		IC160	AF000113	0IPMGJR007A	IC,POWER MANAGEMENT	NJM2396F08 JRC 4PIN TO-220 ST	
		IC160	79098749	0IPMGFA016A	IC,POWER MANAGEMENT	KA78R08TSTU FAIRCHILD 4P TO-22	
		IC160	AF000115	0IPMGSH009A	IC,POWER MANAGEMENT	PQ08RD1L SHARP 4PIN TO-220 ST	
		IC161	AF000160	0ISH313000C	IC,SHARP	PQ3RD13L 4PIN TO-220 ST 3.3V L	
		IC161	79098748	0IPMGFA015A	IC,POWER MANAGEMENT	KA78R33TSTU FAIRCHILD 4P TO-22	
		IC162	AF000528	0IPMGKE046A	IC,POWER MANAGEMENT	KIA78R35API KEC 4PIN,TO-220IS(	
		IC163	AF000527	0IPMGKE018A	IC,POWER MANAGEMENT	KIA78R05API CU KEC 4P TO-220IS	
		IC165	79098740	0IKE781200S	IC,KEC	KIA78R12PI CU 4P TO-220IS ST 1	
		IC301	79096323	0ILNRSA012A	IC,LINEAR	LA71206M-MPB SANYO 80PIN QFP T	
		IC302	79096321	0IJR223400D	IC,JRC	NJM2234L SIP8 ST S/W IC(3INPUT	
		IC501	AF000523	0IMCRMI089A	IC,MICRO CONTROLLER	M3776AMCA-1C7GP MITSUBISHI 100	
		IC503	AF000009	0ICS241600B	IC,CATALYST	CAT24WC16P 8P DIP ST 16K SERIA	
		IC503	79096320	0ICS241600B	IC,CATALYST	CAT24WC16P 8P DIP ST 16K SERIA	
		IC503	AF000662	0ISS241610A	IC,DRAWING	S524A60X51-DCB0 8P DIP ST 16K	
		IC504	79096322	0IKE703100A	IC,KEC	KIA7031P 3P 3.1V RESET(TAPING)	
		IC505	79098739	0IKE704200B	IC,KEC	KIA7042P 3P 4.2V RESET(TAPING)	
		IC506	79097140	0IFA742440F	IC,FAIRCHILD	MM74HCT244SJ 20P SOIC TP 3-STA	
		IC602	79096330	0IPRPMT006A	IC,PERIPHERALS	MM1225XFBE MITSUMI 8PIN SOP R/	
		IC801	AF000297	0ILNRSA013B	IC,LINEAR	LA72670BM-L-MPB-E SANYO 80PIN	
		JK801	AF000637	6612JH003DA	JACK,RCA	RCA-907A-01G YUQIU DIRECTV	
		L301	79098758	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L303	79098758	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L305	79096333	0LR0102K035	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		L501	79098758	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L510	79096335	0LR0682K035	INDUCTOR RADIAL LEAD	68M K 6X6 L5 TP	
		L511	79096334	0LR0221J0N5	INDUCTOR,RADIAL LEAD	2.2UH 5% TP 3X5 TR5	
		L512	79098758	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L706	79096333	0LR0102K035	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		L822	79098758	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		LD501	AF000605	4931R-0086C	HOLDER ASSEMBLY	VCR DECK/MECHA END(S)	
		MS501	AF000635	6600JR3002C	SWITCH,MODE	MMS01180ZMBO MIC 5VDC 1MA D37	
		P3D01	AF000754	561-234S	CONNECTOR (CIRC),FFC/FPC	GF120-9S-TS-A LG CABLE 9P 1.25	
		P3D02	AF000770	6630R5S010A	CONNECTOR(CIRC),DRAWING	GF105-06S-TS LG CABLE 6PIN 2MM	
		P3D03	AF000755	561-251B	CONNECTOR(CIRC),DRAWING	GB201-2P-TS-B(LGC)	
		PMC01	AF000771	6630R-BE01L	CONNECTOR (CIRC),BOARD TO BOAR	JE612-12 JAE EUN 12P 2.0MM	
		PV601	AF000762	561-843L	CONNECTOR(CIRC),DRAWING	TUC-P12P-B1,TAIKO	
		PV602	AF000761	561-843F	CONNECTOR(CIRC),DRAWING	TUC-P07P-B1 TAIKO 7P 2.0MM	
		PVD01	AF000779	6631R-E023C	CONNECTOR ASSEMBLY	8283/9073ST 12 PIN 200M/M UL10	
		PVD02	AF000757	561-686L	CONNECTOR (CIRC),FFC/FPC	00-8370-121-000-800 ELCO 12PIN	
		PVD03	AF000757	561-686L	CONNECTOR (CIRC),FFC/FPC	00-8370-121-000-800 ELCO 12PIN	
		PVD04	AF000756	561-661B	CONNECTOR (CIRC),HOUSING	5267-02A MOLEX 2PIN 2-54MM STR	
		PVS01	AF000758	561-7150	CONNECTOR (CIRC),WAFER	GIL-G-15P-S3T2-E LG CABLE 15P	
		Q161	79097535	0TR320509AB	TRANSISTOR	KTC3205-TP-Y (KTC2236A)KEC	
		Q162	79097535	0TR320509AB	TRANSISTOR	KTC3205-TP-Y (KTC2236A)KEC	
		Q163	79097532	0TR126809BA	TRANSISTOR,BIPOLARS	KTA1268-BL TP KEC	
		Q164	AF000327	0TR928009AD	TRANSISTOR	KSA928A-Y,TO-92L TP SAMSUNG TO	
		Q164	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q166	79097535	0TR320509AB	TRANSISTOR	KTC3205-TP-Y (KTC2236A)KEC	
		Q167	AF000327	0TR928009AD	TRANSISTOR	KSA928A-Y,TO-92L TP SAMSUNG TO	
		Q167	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q168	AF000327	0TR928009AD	TRANSISTOR	KSA928A-Y,TO-92L TP SAMSUNG TO	
		Q168	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q169	79096377	0TR534309BA	TRANSISTOR,BIPOLARS	2SC5343-L TP AUK TO92 -	
		Q301	79095005	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q302	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q303	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q304	79096378	0TR534409AA	TRANSISTOR	2SC5344Y TP	
		Q305	AF000327	0TR928009AD	TRANSISTOR	KSA928A-Y,TO-92L TP SAMSUNG TO	
		Q305	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q306	79095005	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q307	79095005	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q308	AF000327	0TR928009AD	TRANSISTOR	KSA928A-Y,TO-92L TP SAMSUNG TO	
		Q308	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		Q309	79095001	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q310	79096031	0TR103009AC	TRANSISTOR	KRA103S-T1(PC)22-22 CHIP KEC	
		Q501	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q503	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q504	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q505	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q506	79095001	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q507	79095005	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q805	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		R161	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R163	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R164	79096346	0RH1003D622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 10 W 2012 5.00% D	
		R165	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R166	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R167	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R168	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R169	79096354	0RH1802D622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 10 W 2012 5.00% D	
		R170	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R171	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R172	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R174	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R175	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R176	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R177	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R178	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R179	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R180	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R181	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R182	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R183	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R301	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R302	79096359	0RH2702D622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	
		R303	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R304	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R305	79096367	0RH5600D622	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 10 W 2012 5.00% D	
		R306	79096562	0RH0472D622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 10 W 2012 5.00% D	
		R307	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R308	79097190	0RH0221D622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R309	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R310	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R311	79096360	0RH3301D622	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 10 W 2012 5.00% D	
		R312	79096362	0RH3901D622	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 10 W 2012 5.00% D	
		R313	79096353	0RH1801D622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 10 W 2012 5.00% D	
		R317	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R318	79096555	0RH3303D622	RESISTOR,METAL GLAZED(CHIP)	330K OHM 1 / 10 W 2012 5.00% D	
		R319	79096349	0RH1202D622	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 10 W 2012 5.00% D	
		R320	AF000536	0RH1200D622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 10 W 2012 5.00% D	
		R321	79096359	0RH2702D622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	
		R322	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R324	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R325	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R326	79096351	0RH1502D622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 10 W 2012 5.00% D	
		R327	79096370	0RH6801D622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 10 W 2012 5.00% D	
		R328	79096350	0RH1501D622	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 10 W 2012 5.00% D	
		R331	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R332	79096353	0RH1801D622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 10 W 2012 5.00% D	
		R333	79096348	0RH1201D622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 10 W 2012 5.00% D	
		R335	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R336	79096349	0RH1202D622	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 10 W 2012 5.00% D	
		R337	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R338	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R339	79096354	0RH1802D622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 10 W 2012 5.00% D	
		R340	79096350	0RH1501D622	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 10 W 2012 5.00% D	
		R341	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R342	79096364	0RH4700D622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 10 W 2012 5.00% D	
		R344	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R345	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R346	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R348	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R501	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R502	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R504	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R505	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R507	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R508	79096359	0RH2702D622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R509	79096369	0RH6800D622	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 10 W 2012 5.00% D	
		R510	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R511	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R512	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R514	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R515	79096558	0RH2700D622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 10 W 2012 5.00% D	
		R517	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R521	79096358	0RH2701D622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R522	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R523	79096551	0RH5601D622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 10 W 2012 5.00% D	
		R524	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R525	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R526	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R528	79096358	0RH2701D622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R529	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R530	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R531	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R533	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R534	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R535	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R536	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R537	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R538	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R541	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R543	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R544	79096346	0RH1003D622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 10 W 2012 5.00% D	
		R545	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R546	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R547	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R548	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R550	79096355	0RH2200D622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D	
		R553	79096355	0RH2200D622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D	
		R554	79096347	0RH1004D622	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 10 W 2012 5.00% D	
		R555	79096355	0RH2200D622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D	
		R556	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R557	79096359	0RH2702D622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	
		R558	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R563	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R564	79096359	0RH2702D622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	
		R566	79096358	0RH2701D622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R569	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R570	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R571	79096355	0RH2200D622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D	
		R575	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R576	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R577	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R578	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R579	79096368	0RH5602D622	RESISTOR,METAL GLAZED(CHIP)	56K OHM 1 / 10 W 2012 5.00% D	
		R580	79096351	0RH1502D622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 10 W 2012 5.00% D	
		R581	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R582	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R583	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R586	79096353	0RH1801D622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 10 W 2012 5.00% D	
		R587	79096353	0RH1801D622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 10 W 2012 5.00% D	
		R588	79096358	0RH2701D622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R589	79096350	0RH1501D622	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 10 W 2012 5.00% D	
		R592	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R593	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R594	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R595	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R596	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R597	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R598	79096348	0RH1201D622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 10 W 2012 5.00% D	
		R599	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R5C6	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R5D1	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R5V1	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R5V2	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R616	79096343	0RH0752D622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 10 W 2012 5.00% D	
		R617	79096343	0RH0752D622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 10 W 2012 5.00% D	
		R618	79096343	0RH0752D622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 10 W 2012 5.00% D	
		R625	79096343	0RH0752D622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 10 W 2012 5.00% D	
		R626	79096373	0RH8202D622	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 10 W 2012 5.00% D	
		R627	79096373	0RH8202D622	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 10 W 2012 5.00% D	
		R628	79096343	0RH0752D622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 10 W 2012 5.00% D	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R702	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R703	79096362	0RH3901D622	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 10 W 2012 5.00% D	
		R706	79096369	0RH6800D622	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 10 W 2012 5.00% D	
		R707	79096369	0RH6800D622	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 10 W 2012 5.00% D	
		R708	AF000017	0RH3302D622	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 10 W 2012 5.00% D	
		R711	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R801	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R802	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R804	79096551	0RH5601D622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 10 W 2012 5.00% D	
		R805	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R806	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R807	79096549	0RH6802D622	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 10 W 2012 5.00% D	
		R808	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R809	79096352	0RH1800D622	RESISTOR,METAL GLAZED(CHIP)	180 OHM 1 / 10 W 2012 5.00% D	
		R810	79096353	0RH1801D622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 10 W 2012 5.00% D	
		R811	79096549	0RH6802D622	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 10 W 2012 5.00% D	
		R812	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R813	79096549	0RH6802D622	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 10 W 2012 5.00% D	
		R814	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R817	79096351	0RH1502D622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 10 W 2012 5.00% D	
		R818	79096551	0RH5601D622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 10 W 2012 5.00% D	
		R821	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R822	79096346	0RH1003D622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 10 W 2012 5.00% D	
		R823	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R835	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R836	79096364	0RH4700D622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 10 W 2012 5.00% D	
		R837	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R838	79096358	0RH2701D622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R839	79096363	0RH3902D622	RESISTOR,METAL GLAZED(CHIP)	39K OHM 1 / 10 W 2012 5.00% D	
		R840	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R842	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R843	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R844	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R845	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R851	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R856	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R857	79096549	0RH6802D622	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 10 W 2012 5.00% D	
		R858	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R866	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R867	79096351	0RH1502D622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 10 W 2012 5.00% D	
		R874	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		RS501	AF000633	6500RAB009A	SENSOR	KIT-3001B KODENSHI KOREA 4PIN	
		RS502	AF000633	6500RAB009A	SENSOR	KIT-3001B KODENSHI KOREA 4PIN	
		TU701	AF000459	6700NFNL05A	TUNER	TADM-H202F(US.LGIT) LG INOTEK	
		TU701	AF000458	6700NFNG05A	TUNER	TCMN0682PA20C4(US,ss) SS NTSC	
		X301	AF000622	6202R1357AE	RESONATOR,CRYSTAL	HC49U SSANG TAE 3-579575MHZ 15	
		X501	79096501	6202R-DA01B	RESONATOR,CRYSTAL	CFS-308 CITIZEN 32.768KHZ +/-	
		X501	AF000082	6212AC2327E	RESONATOR,CRYSTAL	C-001R SEIKO EPSON 32.768 KHZ	
		X502	79096458	6202R1143DC	RESONATOR,CRYSTAL	H49U BUBANG 14-31818HZ 25PPM 1	
		ZD161	AF000522	0DZ560009CB	DIODE,ZENER	MTZ5.6C TP(26MM) ROHM 5.6V	
		ZD161	79096317	0DZ562609AB	DIODE,ZENER	UZ-5.6BSC 26MM TP PYUNG CHANG	
		ZD162	AF000520	0DZ100009HA	DIODE,ZENERS	UZ-10BM TP PYUNG CHANG - 0.5W	
		ZD163	AF000520	0DZ100009HA	DIODE,ZENERS	UZ-10BM TP PYUNG CHANG - 0.5W	
		***** DECK ASSEMBLY , VIDEO(VCR) *****					
		A00	AF000644	6721RF0940A	DECK ASSEMBLY,VIDEO	DECK/MECHA D37(N) DI (4HF, NT,	NSP
		A01	AF000470	6723R-0603E	DRUM(CIRC) ASSEMBLY	DECK/MECHA (9C6S) D37-6CH NTSC	
		A03	AF000380	4261R-0039A	ARM ASSEMBLY	DECK/MECHA CLEANER - D37	
		A11	AF000401	4471R-0017A	GEAR ASSEMBLY	DECK/MECHA P3 - D37	
		A12	AF000399	4471R-0015A	GEAR ASSEMBLY	DECK/MECHA P2 - D37	
		A21	AF000419	4931R-0084A	HOLDER ASSEMBLY	DECK/MECHA CST - D37	
		A22	AF000400	4471R-0016A	GEAR ASSEMBLY	DECK/MECHA RACK F/L - D37	
		A23	AF000379	4261R-0038A	ARM ASSEMBLY	DECK/MECHA F/L - D37	
		A24	AF000593	4511R-0004A	LEVER ASSEMBLY	SWIHCH(V) - D37	
		003	AF000600	4930R-0376A	HOLDER	DECK/MECHA FPCB(6CH) - D35S, D	
		004	AF000611	5006R-0042A	CAP	DECK/MECHA FPCB - D35S, D37V O	
		006	AF000056	4580R-0004A	ROLLER	CLEANER	NSP
		007	AF000376	4260R-0053A	ARM	DECK/MECHA CLEANER MOLD - D37	NSP
		008	AF000473	6850R-HG18Y	CABLE,FLAT	P=1.25 FFC UL2896(0.05X0.8) 7	
		009	AF000377	4260R-0056A	ARM	DECK/MECHA T/UP OTHER - D37	
		011	AF000381	4261R-0040A	ARM ASSEMBLY	DECK/MECHA TENSION - D37	
		012	AF000337	3041R-M037A	BASE ASSEMBLY	P2 -D37	
		012	AF000721	3041R-M037B	BASE ASSEMBLY	P2 - D37	
		013	AF000338	3041R-M038A	BASE ASSEMBLY	P3 - D37	
		013	AF000722	3041R-M038B	BASE ASSEMBLY	P3 - D37	
		014	AF000339	3041R-M039A	BASE ASSEMBLY	P4 - D37	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		015	AF000431	5870R-0007A	OPENER	DECK/MECHA LID OTHER - D37	
		016	AF000335	3041R-M036A	BASE ASSEMBLY	A/C HEAD (ALPS) - D37	
		016	AF000336	3041R-M036B	BASE ASSEMBLY	A/C HEAD (TDK) - D37	
		017	AF000388	4408R-0005A	REEL	DECK/MECHA S OTHER - D37	
		021	AF000391	4421R-M002A	BRAKE ASSEMBLY	T - D37	
		022	AF000634	6520D00004A	HEAD(CIRC)	ST ST FE HEAD FOR D37	
		023	AF000331	3040R-M056A	BASE	LOADING OTHER - D37	
		024	AF000383	4261R-0042A	ARM ASSEMBLY	DECK/MECHA IDLER(N) - D37	
		026	AF000412	4681RF0039A	MOTOR ASSEMBLY	DECK/MECHA L/D - (DI) D37	
		027	AF000392	4470R-0133A	GEAR	DECK/MECHA WHEEL OTHER - D37	
		028	AF000389	4408R-0006A	REEL	DECK/MECHA T OTHER - D37	
		029	AF000378	4261R-0037A	ARM ASSEMBLY	DECK/MECHA PINCH - D37 (CHON P	
		029	AF000671	4261R-0037B	ARM ASSEMBLY	DECK/MECHA PINCH - D37 (YAMAUC	
		029	AF000663	4261R-0037C	ARM ASSEMBLY	DECK/MECHA PINCH - D37 (MEIJI)	
		031	AF000427	4970R-0175A	SPRING	COIL TENSION - D37	
		032	AF000344	3141R-M002A	CHASSIS ASSEMBLY	D37	NSP
		051	79096414	4400R-0005A	BELT	CAPSTAN	
		052	AF000409	4680R-A015A	MOTOR(MECH)	CAPSTAN F2QVB66 SANKYO FOR D37	
		052	AF000411	4680R-A017A	MOTOR(MECH)	CAPSTAN DMVCMC20L SAMSUNG FOR	
		052	AF000410	4680R-A016A	MOTOR(MECH)	CAPSTAN MCVC-037AA LGIT FOR D3	
		052A	AF000428	4980R-0029A	SUPPORTER	DECK/MECHA CAPSTAN OTHER - D37	
		054	AF000395	4470R-0136A	GEAR	DECK/MECHA RACK F/L OTHER - D3	
		054A	AF000425	4970R-0171A	SPRING	COIL RACK F/L - D37	
		055	AF000397	4470R-0140A	GEAR	DECK/MECHA DRIVE OTHER - D37	
		056	AF000396	4470R-0139A	GEAR	DECK/MECHA CAM OTHER - D37	
		058	AF000390	4421R-M001A	BRAKE ASSEMBLY	CAPSTAN -D37	
		060	AF000406	4510R-0065A	LEVER	DECK/MECHA F/R OTHER - D37	
		061	AF000386	4265R-0007A	CLUTCH ASSEMBLY	DECK/MECHA D37(N)	
		064	AF000398	4470R-0141A	GEAR	DECK/MECHA SECTOR OTHER - D37	
		065	AF000385	4261R-0044A	ARM ASSEMBLY	DECK/MECHA P3 - D37	NSP
		066	AF000073	4970R-0122A	SPRING	COIL D35	NSP
		067	AF000394	4470R-0135A	GEAR	DECK/MECHA P3 OTHER - D37	NSP
		068	AF000393	4470R-0134A	GEAR	DECK/MECHA P2 OTHER - D37	NSP
		069	AF000073	4970R-0122A	SPRING	COIL D35	NSP
		070	AF000384	4261R-0043A	ARM ASSEMBLY	DECK/MECHA P2 - D37	NSP
		076	AF000404	4510R-0063A	LEVER	DECK/MECHA SPRING OTHER - D37	
		077	AF000350	3300R-M203A	PLATE	SLIDER OTHER - D37	
		078	AF000403	4510R-0062A	LEVER	DECK/MECHA TENSION OTHER - D37	
		079	AF000332	3040R-M057A	BASE	TENSION OTHER - D37	
		080	AF000405	4510R-0064A	LEVER	DECK/MECHA BRAKE OTHER - D37	
		100	AF000557	3300R-M202A	PLATE	TOP OTHER - D37	
		102	AF000426	4970R-0173A	SPRING	COIL STOPPER - D37	
		103	AF000417	4930R-0452A	HOLDER	DECK/MECHA SIDE (L) OTHER - D3	NSP
		105	AF000415	4930R-0450A	HOLDER	DECK/MECHA CST OTHER - D37	NSP
		106	AF000416	4930R-0451A	HOLDER	DECK/MECHA SIDE(R) OTHER - D37	NSP
		107	AF000402	4510R-0061A	LEVER	DECK/MECHA STOPPER OTHER - D37	NSP
		109	AF000432	5870R-0008A	OPENER	DECK/MECHA DOOR OTHER - D37	
		110	AF000374	4260R-0051A	ARM	DECK/MECHA F/L(L) OTHER - D37	NSP
		112	AF000021	3070R-0002A	BODY	F/L	NSP
		113	AF000424	4970R-0169A	SPRING	COIL F/L(R) - D37	NSP
		114	AF000375	4260R-0052A	ARM	DECK/MECHA F/L (R) OTHER - D37	NSP
		115	AF000592	4510R-0060A	LEVER	DECK/MECHA SWITCH(V) OTHER - D	
		116	AF000423	4970R-0163A	SPRING	COIL D35S SWITCH	
		405	AF000718	1MPC0301270	SCREW MACHINE,PAN HEAD	D3.0 L3.5 SWRCH18A/FZW	
		406	79096381	1MEC0302018	PAN HEAD MACHINE SCREW S/W +	D 3.0 L 6.0 MSWR3/FZY	
		409	79096384	1SZZR-0032B	SCREW,DRAWING	+ 1 D2.6 L5.0 SWRCH18A/FZY TAP	
		410	79096379	1APF0262218	SCREW TAP TITE(B),PAN HEAD	D2.6 L6.8 MSWR3/FZY	
		517	79096386	1WZZR-0004D	WASHER,DRAWING	STOPPER	
		518	79096385	1WZZR-0004A	WASHER,DRAWING	STOPPER	
		***** PWB(PCB) ASSEMBLY , TOTAL TIMER/KEY *****					
		A50	AF000652	6871R-5581A	PWB(PCB) ASSEMBLY,TOTAL	LH-C444M KEY & TIMER ASSY	
		276B	AF000603	4930RL5001A	HOLDER	HOME LH-C641M MOLD DISPLAY (VF	
		C601	AF000511	0CN1050K948	CAPACITOR,TUBULAR(HIGH DIELEC)	1UF 50V Z F TA26 D	
		C602	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C603	79096303	0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	
		C604	79098728	0CN1040K948	CAPACITOR,FIXED TUBULAR(HIGH D	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C606	79098728	0CN1040K948	CAPACITOR,FIXED TUBULAR(HIGH D	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C609	790971234	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C609	79097123	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C610	790971234	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C610	79097123	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C611	790971234	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C611	79097123	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C612	790971234	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C612	79097123	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C615	AF000511	0CN1050K948	CAPACITOR,TUBULAR(HIGH DIELEC)	1UF 50V Z F TA26 D	
		C616	AF000511	0CN1050K948	CAPACITOR,TUBULAR(HIGH DIELEC)	1UF 50V Z F TA26 D	
		C6G1	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C6G2	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G10	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G3	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G4	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G5	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G6	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G7	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G8	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G9	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		DIG601	AF000625	6302R-V212A	DIGITRON	12-BT-156GNK FUTABA SEG VFD CO	
		IC601	79096331	0IPRPNE001A	IC,PERIPHERALS	UPD16315GB-3BS NEC 44 QFP BK F	
		IC601	AF000013	0IPRPPY002A	IC,PERIPHERALS	PT6315 PTC 44 LQFP TRAY VFD DR	
		JK601	AF000456	6612JH003AD	JACK,RCA	RCA-102H(BK) YUQIU BLACK	
		JK602	AF000456	6612JH003AD	JACK,RCA	RCA-102H(BK) YUQIU BLACK	
		JK603	AF000456	6612JH003AD	JACK,RCA	RCA-102H(BK) YUQIU BLACK	
		L601	79096336	0LR8200J025	INDUCTOR,RADIAL LEAD	820UH 5% 4X5 TR5	
		L602	79096332	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L603	79096332	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		P6602	AF000776	6630S-BC02H	CONNECTOR (CIRC),BOARD TO BOAR	53045-0811 J-MOLEX 8PIN 1-25MM	
		P6603	AF000775	6630S-BC01H	CONNECTOR (CIRC),BOARD TO BOAR	52061-0811 J-MOLEX 8PIN 1-25MM	
		P6M01	AF000765	561-844L	CONNECTOR(CIRC),DRAWING	TUC-P12X-B1,TAIKO	
		P6M02	AF000764	561-844F	CONNECTOR(CIRC),DRAWING	TUC-P07X-B1 TAIKO 7P 2.0MM	
		R601	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R602	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R603	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R604	79093019	0RD6802F608	RESISTOR,FIXED CARBON FILM	68K OHM 1/6 W 5% TA26	
		R605	79093014	0RD3300F608	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5% TA26	
		R606	79096028	0RD0471F608	RESISTOR,FIXED CARBON FILM	4.7 OHM 1/6 W 5% TA26	
		R607	79096028	0RD0471F608	RESISTOR,FIXED CARBON FILM	4.7 OHM 1/6 W 5% TA26	
		R608	AF000533	0RD0122F608	RESISTOR,FIXED CARBON FILM	12 OHM 1/6 W 5.00% TA26	
		R609	AF000533	0RD0122F608	RESISTOR,FIXED CARBON FILM	12 OHM 1/6 W 5.00% TA26	
		R612	79098764	0RD6800F608	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5% TA26	
		R613	79098765	0RD8200F608	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5% TA26	
		R614	79093007	0RD1201F608	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R614	79096185	0RD1201F608	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R615	79098760	0RD1501F608	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5% TA26	
		R616	79098761	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R617	79098762	0RD3301F608	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5% TA26	
		R618	79093017	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R619	79098766	0RD8201F608	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5% TA26	
		R632	79098762	0RD3301F608	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5% TA26	
		R633	79098761	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R634	79098760	0RD1501F608	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5% TA26	
		R635	79093007	0RD1201F608	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R635	79096185	0RD1201F608	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R636	79098765	0RD8200F608	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5% TA26	
		R637	79098764	0RD6800F608	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5% TA26	
		R641	79098759	0RD0752F608	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26	
		R642	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R643	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		RC601	AF000465	6712R1638GB	REMOTE CONTROLLER RECEIVER	TSOP4438RF1 VISHAY 38KHZ =TSOP	
		SW601	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW602	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW603	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW604	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW605	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW606	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW607	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW608	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW609	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW631	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW631	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW632	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW632	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW633	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW633	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW634	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW634	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW635	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW635	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW636	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW636	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		SW637	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW637	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		VR601	79097560	6110S-ET01A	VOLUME,ENCODER	EC16B242040M ALPS - D=16 V 24	
		*** SUB ASSEMBLY , MAIN(DVD) ***					
		A46A	AF000789	6885R-6559C	SUB PWB(PCB) ASSEMBLY	4341 0067 1005 7CA3 0000 0000	
		322	AF000752	4920R-E010A	HEAT SINK	AL EX 124 X 39 X 42 LH-C641M P	
⚠		C101	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
⚠		C102	79096269	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C103	79098720	0CH4180K412	CAPACITOR,CHIP[CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/TP	
		C104	79098720	0CH4180K412	CAPACITOR,CHIP[CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/TP	
		C108	790092005	0CE2276F638	CAPACITOR,ELECTROLYTIC	220U SMS 16V M FM5 TP(5)	
		C108	79092005	0CE2276F638	CAPACITOR,ELECTROLYTIC	220U SMS 16V M FM5 TP(5)	
		C109	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C119	79098717	0CH1332K562	CAPACITOR,CHIP[CERAMIC M/L HD	3300P 50V K X7R 1.6X0.8 R/TP	
		C120	79098717	0CH1332K562	CAPACITOR,CHIP[CERAMIC M/L HD	3300P 50V K X7R 1.6X0.8 R/TP	
		C126	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C127	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C128	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C133	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C134	79096146	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C135	79096146	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C136	79096146	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C141	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C146	AF000505	0CE4776F638	CAPACITOR,FIXED ELECTROLYTIC	470UF SMS,SG 16V 20% FM5 TP 5	
		C147	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C202	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C203	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C204	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C205	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C206	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C207	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		C208	79096125	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C209	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C210	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C211	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C213	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C214	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C215	79096131	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C216	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C220	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C221	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C222	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C223	79096142	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C224	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C226	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C230	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C232	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C233	79096152	0CH4100K412	CAPACITOR,CHIP[CERAMIC M/L TC	10PF 50V J NP0 1608 R/TP	
		C234	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C235	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C236	79096152	0CH4100K412	CAPACITOR,CHIP[CERAMIC M/L TC	10PF 50V J NP0 1608 R/TP	
		C301	79096146	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C302	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C305	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C306	79098706	0CE1086C638	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C307	79096125	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C309	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C311	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C312	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C313	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C314	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C315	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C316	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C317	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C318	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C319	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C320	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C321	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C322	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C323	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C325	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C326	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C327	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C328	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C329	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C330	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C331	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C332	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C333	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C334	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C335	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C336	79092021	0CH1473H942	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C337	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C338	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C339	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C351	79096154	0CH4331K412	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C352	79096154	0CH4331K412	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C353	79096154	0CH4331K412	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C354	79096154	0CH4331K412	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C355	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C356	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C357	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C358	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C359	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C360	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C361	79096596	0CH4471K412	CAPACITOR,CHIP[CERAMIC M/L TC	470PF 50V J NP0 1508 R/TP	
		C362	79096596	0CH4471K412	CAPACITOR,CHIP[CERAMIC M/L TC	470PF 50V J NP0 1508 R/TP	
		C363	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C364	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C365	79096142	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C366	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C367	79096126	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C368	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C369	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C401	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C402	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C403	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C406	79098705	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C407	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C408	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C411	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C412	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C413	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C414	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C431	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C432	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C433	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C434	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C439	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C440	79096609	0CH1153K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C441	AF000504	0CE4774D638	CAPACITOR,FIXED ELECTROLYTIC	470UF SRA,SS 10V 20% FM5 TP 5	
		C443	79096595	0CH4561K412	CAPACITOR,FIXED CERAMIC(High d	560PF 50V 5% NP0 1608 R/TP	
		C444	79096595	0CH4561K412	CAPACITOR,FIXED CERAMIC(High d	560PF 50V 5% NP0 1608 R/TP	
		C445	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C451	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C452	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C453	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C454	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C455	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C457	79098715	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C458	79098715	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C459	79098715	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C460	79098715	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C461	79098715	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C462	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C463	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C464	79096609	0CH1153K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C465	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C466	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C467	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C468	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C469	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C470	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C471	79096598	0CH4391K412	CAPACITOR,CHIP[CERAMIC M/L TC	390PF 50V J NP0 1508 R/TP	
		C472	79096598	0CH4391K412	CAPACITOR,CHIP[CERAMIC M/L TC	390PF 50V J NP0 1508 R/TP	
		C473	79092019	0CH1333K562	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	
		C474	79096596	0CH4471K412	CAPACITOR,CHIP[CERAMIC M/L TC	470PF 50V J NP0 1508 R/TP	
		C476	79092023	0CH4100K112	CHIP CAPA CERAMIC M/L T.C F/S	10P 50V D COG 1.6X0.8 R/TP	
		C477	79096609	0CH1153K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C478	79098721	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C479	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C480	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C481	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C482	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C483	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C491	79098705	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C492	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C493	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C495	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C496	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C497	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C498	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C499	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C502	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C503	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C504	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C505	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C506	79097121	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C507	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C508	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C509	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C510	79097121	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C511	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C513	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C514	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C515	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C516	79092018	0CH1225F944	CAPACITOR,FIXED CERAMIC(Temp.c	2.2UF 16V 80%,-20% Y5V(F) 3216	
		C517	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C518	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C519	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C520	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C521	79092018	0CH1225F944	CAPACITOR,FIXED CERAMIC(Temp.c	2.2UF 16V 80%,-20% Y5V(F) 3216	
		C522	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C523	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C524	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C525	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C526	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C527	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C528	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C529	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C530	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C531	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C532	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C533	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C534	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C535	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C536	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C537	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C538	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C539	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C540	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C541	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C542	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C543	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C544	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C545	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C554	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C555	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C556	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C557	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C558	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C559	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C560	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C561	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C563	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C564	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C565	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C566	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C567	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C568	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C569	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C573	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C575	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C576	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C577	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C578	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C579	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C580	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C581	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C582	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C583	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C584	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C585	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C586	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C587	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C588	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C589	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C590	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C591	79098720	0CH4180K412	CAPACITOR,CHIP[CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/TP	
		C592	79092026	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C593	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C594	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C595	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C596	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C597	79096155	0CH4470K412	CAPA,CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C598	AF000500	0CE108CC638	CAPACITOR,FIXED ELECTROLYTIC	1000UF SHL,SD 6.3V 20% FM5 TP	
		C599	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C5A1	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C5A2	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C601	79098706	0CE1086C638	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C602	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C603	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C604	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C606	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C665	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C666	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C700	79096137	0CE228EK650	CAPACITOR,FIXED ELECTROLYTIC	2200UF KMG 50V 20% FM7.5 BULK	
		C701	79096137	0CE228EK650	CAPACITOR,FIXED ELECTROLYTIC	2200UF KMG 50V 20% FM7.5 BULK	
		C703	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C704	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C705	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C706	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C707	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C708	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C709	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C710	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C711	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C712	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C713	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C714	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C715	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C716	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C717	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C718	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C719	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C720	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C721	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C722	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C723	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C724	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C725	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C726	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C727	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C728	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C729	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C730	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C731	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C732	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C733	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C734	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C735	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C736	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C737	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C738	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C739	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C740	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C741	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C742	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C743	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C744	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C745	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C746	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C747	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C748	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C749	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C750	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C751	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C752	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C753	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C754	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C755	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C756	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C757	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C758	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C762	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C763	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C764	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C765	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C766	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C767	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C768	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C769	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C770	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C771	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C772	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C773	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C774	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C775	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C776	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C777	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C778	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C779	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C785	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C786	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C788	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C789	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C811	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C812	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C813	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		C821	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C822	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C823	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		C831	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C832	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C833	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		C841	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C842	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C843	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		C861	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C862	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C863	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		C871	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		D301	79096008	0DR104009AB	DIODE,RECTIFIERS	RL104 R. TP GULF SEMICONDUCTOR	
		D302	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D501	79096008	0DR104009AB	DIODE,RECTIFIERS	RL104 R. TP GULF SEMICONDUCTOR	
		D603	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D604	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		F502	79096503	6200JB8010V	FILTER(CIRC),EMC	LFA20-2A1E473MT MITSUBISHI MAT	
		F604	79091006	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F605	79091006	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
⚠		IC101	AF000524	0IMCRSA076A	IC,MICRO CONTROLLER	LC875747B-53M2 SANYO 64PIN QFP	
		IC103	79096322	0IKE703100A	IC,KEC	KIA7031P 3P 3.1V RESET(TAPING)	
		IC202	AF000530	0IPRPAK005A	IC,PERIPHERALS	AK4586VQ AKM 44 PIN LQFP TRAY	
		IC203	AF000531	0IPRPMT007A	IC,PERIPHERALS	MM1231XF MITSUMI 16PIN SOP ST	
		IC204	AF000298	0ILNRUC001A	IC,LINEAR	MC4580 UTC 8PIN,SOP R/TP 2CH O	
		IC205	79097520	0IJR456000B	IC,JRC	NJM4560M-TE1-DMP,OP AMP.JRC	
		IC301	AF000529	0IPMGPV002A	IC,POWER MANAGEMENT	PS9818 PULSUS 100PIN,QFP TRAY	
		IC401	79096585	0ILNRNF006A	IC,LINEAR	MT1336E/BP MEDIATEK INCORPORAT	
		IC402	79096576	0IPRPSA010A	IC,PERIPHERALS	LA6560-A-TE-L SANYO HSOP-36R R	
		IC501	AF000154	0ILNRNF008B	IC,LINEAR	MT1379EEC,EEC/CA MEDIATEK INCO	
		IC505	79096693	0ISS240210A	IC,SAMSUNG ELECTRONICS	S524A40X21-SCT0 SOP8 TP EEPROM	
		IC506	AF000264	0IMMRHY001E	IC,MEMORIES	HY57V641620HGT-7 HYUNDAI 54PIN	
		IC507	79096577	0IPRPMT008A	IC,PERIPHERALS	MM1623XFBE MITSUMI 28PIN SOP R	
		IC5A1	AF000186	0IMMRFU011A	IC,MEMORIES	MBM29LV160TE70NC FUJITSU 48PIN	
		IC5A1A	AF000656	6957R-645AA	PROGRAM	#1 ESF TOSHIBA MTK LH-C444M DV	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		IC710	AF000711	0IPRPSG033A	IC,PERIPHERALS	STA-508 STM 36PIN,POWERSO36 R/	
		IC730	AF000711	0IPRPSG033A	IC,PERIPHERALS	STA-508 STM 36PIN,POWERSO36 R/	
		IC750	AF000711	0IPRPSG033A	IC,PERIPHERALS	STA-508 STM 36PIN,POWERSO36 R/	
		IC770	AF000711	0IPRPSG033A	IC,PERIPHERALS	STA-508 STM 36PIN,POWERSO36 R/	
		JK601	AF000636	6612BBBHN5A	JACK,DIN	SCN556S4GTTB000 S-VIDEO HYUSUN	
		JK602	79097573	6612R-L002A	JACK,FIBER OPTIC	TORX178 TOSHIBA	
		JKS01	AF000640	6640000012A	TERMINAL BLOCK	NLA1-01-001 NIPPON 6P AC600V 1	
⚠		L101	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
⚠		L102	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L103	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L104	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L201	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L202	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L203	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L302	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L303	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L304	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L305	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		L307	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L310	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L401	79096571	0LR0102J025	INDUCTOR,RADIAL LEAD	10UH 5% 4X5 TR5	
		L402	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L403	79096571	0LR0102J025	INDUCTOR,RADIAL LEAD	10UH 5% 4X5 TR5	
		L404	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L431	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L451	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L461	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L462	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L464	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L465	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L501	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L502	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L503	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L504	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L505	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L560	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L597	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L598	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L599	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L601	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L603	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L604	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L605	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L710	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L711	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L722	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L730	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L731	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L742	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L750	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L751	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L762	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L770	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L771	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L781	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		PDM01	AF000778	6630XE00123	CONNECTOR (CIRC),FFC/FPC	04-6232-023-010-000/JE500-B1.0	
		PDM03	AF000777	6630XE00111	CONNECTOR (CIRC),FFC/FPC	04-6232-011-010-000/JE500-B1.0	
		PDV01	AF000753	561-036K	CONNECTOR (CIRC),WAFER	MA 8283-1212 WH ELCO	
		PDV02	AF000757	561-686L	CONNECTOR (CIRC),FFC/FPC	00-8370-121-000-800 ELCO 12PIN	
		PDV03	AF000757	561-686L	CONNECTOR (CIRC),FFC/FPC	00-8370-121-000-800 ELCO 12PIN	
		PWS01	AF000780	6631R-F010V	CONNECTOR ASSEMBLY	GIL-G10/GIL-10J 10P 120M/M AWG	
		Q401	79095002	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		Q402	79096542	0TRRH80042A	TRANSISTOR,BIPOLARS	2SK3018 T106 ROHM KOREA R/TP U	
		Q403	79096542	0TRRH80042A	TRANSISTOR,BIPOLARS	2SK3018 T106 ROHM KOREA R/TP U	
		Q404	79095002	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		Q405	79095002	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		Q406	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q407	79095001	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q408	79095001	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q410	79095002	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		Q411	79095001	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q501	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q607	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q608	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q615	79095002	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R104	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R105	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R114	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R115	79093030	0RH1004C622	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R118	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R119	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R120	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R121	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R123	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R124	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R125	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R126	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R127	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R129	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R131	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R132	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R135	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R136	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R137	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R138	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R139	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R140	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R141	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R142	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R143	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R145	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R146	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R147	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R148	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R149	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R150	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R151	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R152	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R153	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R154	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R155	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R156	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R163	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R165	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R166	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R167	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R168	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R169	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R170	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R171	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R172	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R175	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R197	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R198	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R201	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R202	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R202	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R203	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R203	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R204	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R204	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R206	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R207	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R208	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R209	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R210	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R211	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R212	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R213	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R214	AF000314	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R215	AF000314	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R216	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R217	AF000539	0RJ0511C677	RESISTOR,METAL GLAZED(CHIP)	5.1 OHM 1/16 W 5% 1608 R/TP	
		R218	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R219	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R220	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R221	AF000539	0RJ0511C677	RESISTOR,METAL GLAZED(CHIP)	5.1 OHM 1/16 W 5% 1608 R/TP	
		R222	AF000537	0RH1802C422	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 1.00% D	
		R223	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R224	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R225	79093051	0RH7501C622	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R226	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R227	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R228	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R229	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R230	79093051	0RH7501C622	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R231	79093057	0RH1500C622	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
		R232	79093057	0RH1500C622	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
		R250	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R251	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R301	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R302	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R303	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R304	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R305	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R306	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R307	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R308	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R309	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R310	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R311	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R312	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R313	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R314	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R315	79093039	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R316	79093039	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R318	79093031	0RH1201C622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R319	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R320	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R321	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R322	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R323	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R324	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R325	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R326	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R327	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R328	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R329	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R330	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R331	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R332	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R333	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R334	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R335	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R336	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R337	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R338	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R339	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R340	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R341	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R351	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R352	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R353	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R354	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R355	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R356	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R357	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R358	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R359	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R360	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R361	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R362	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R363	79098770	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R364	79098770	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R365	79098770	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R366	79098770	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R367	79098773	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R368	79098773	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R370	79096215	0RH3302C622	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R372	79096215	0RH3302C622	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R373	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R374	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R375	79093047	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R376	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R377	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R378	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R379	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R401	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R402	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R403	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R404	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R405	79096563	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R406	79096563	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R407	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R408	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R409	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R410	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R411	79096564	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R412	79096547	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R413	79096553	0RH3903C622	RESISTOR,METAL GLAZED(CHIP)	390K OHM 1 / 16 W 1608 5.00% D	
		R414	79096547	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R415	79096553	0RH3903C622	RESISTOR,METAL GLAZED(CHIP)	390K OHM 1 / 16 W 1608 5.00% D	
		R416	79096565	0RH0101C622	RESISTOR,METAL GLAZED(CHIP)	1 OHM 1 / 16 W 1608 5.00% D	
		R417	79096564	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R418	79096564	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R420	79096563	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R421	79096563	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R423	AF000715	0RH1200C622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R424	AF000715	0RH1200C622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R425	AF000715	0RH1200C622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R426	AF000715	0RH1200C622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R431	79093039	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R432	79093039	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R433	79096564	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R434	79096564	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R435	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R436	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R437	79096557	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R438	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R439	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R440	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R441	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R442	79096557	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R443	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R444	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R445	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R446	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R451	79096215	0RH3302C622	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R452	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R453	79096557	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R454	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R455	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R456	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R458	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R459	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R470	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R475	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R476	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R478	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R479	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R480	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R481	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R501	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R502	79096547	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R503	79093024	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R504	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R505	79093024	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R506	79093024	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R507	79093041	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R508	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R509	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R510	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R511	79093037	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R512	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R513	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R515	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R515	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R516	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R516	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R517	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R517	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R518	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R518	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R520	79098773	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R521	79096210	0RH0472C622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R523	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R525	79093031	0RH1201C622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R526	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R527	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R528	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R534	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R535	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R537	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R540	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R542	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R543	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R544	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R546	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R547	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R547	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R548	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R548	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R549	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R550	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R550	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R551	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R552	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R555	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R564	79093037	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R565	79093037	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R566	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R567	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R568	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R569	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R570	79098770	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R571	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R575	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R576	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R577	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R578	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R579	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R580	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R581	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R591	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R591	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R592	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R592	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R596	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R596	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R597	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R597	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R598	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R599	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R599	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R5A1	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R5A9	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R607	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R608	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R609	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R610	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R651	79093025	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R652	79093025	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R711	79098771	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R712	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R713	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R714	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R715	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R716	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R717	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R718	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R719	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R720	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R721	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R722	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R723	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R724	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R725	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R726	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R727	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R728	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R729	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R730	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R731	79098771	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R732	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R733	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R734	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R735	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R736	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R737	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R738	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R739	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R740	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R741	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R742	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R743	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R744	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R745	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R746	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R747	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R748	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R749	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R750	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R751	79098771	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R752	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R753	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R754	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R756	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R757	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R758	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R759	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R760	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R761	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R765	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R766	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R767	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R768	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R771	79098771	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R772	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R773	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R775	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R776	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R777	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R778	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R779	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R787	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R788	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R789	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R790	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R791	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R792	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R793	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R798	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		TU101	AF000641	6700FM0091A	TUNER	KST-ML000MV0-61L(2/3GANG-FCC)7	
		X101	79097565	6212AA2983C	RESONATOR,CRYSTAL	HC-49S BUBANG 9.8304MHZ +/- 30	
		X201	79097564	6204R-HK01C	OSCILLATOR	KXO-210 BUBANG AXIAL 12.288MHZ	
		X501	79097346	6202R-BL06C	RESONATOR,CRYSTAL	HC-49/S BUBANG 27MHZ 20PPM 15	
		*** PANEL ASSEMBLY , FRONT ***					
		A43	AF000739	3721R-M186C	PANEL ASSEMBLY,AUDIO	HOME LH-C644M FRONT	
		280	AF000580	3720R-M021A	PANEL,AUDIO	HOME THEATER COMBI-TOSHIBA MOL	
		281	AF000606	4940R-T132A	KNOB	HOME COMBI-TOSHIBA MOLD	
		281A	AF000607	4940R-T133A	KNOB	HOME COMBI-TOSHIBA MOLD TUNING	
		281C	AF000609	4940R-T135A	KNOB	HOME COMBI-TOSHIBA MOLD OP/CL	
		281D	AF000608	4940R-T134A	KNOB	HOME COMBI-TOSHIBA MOLD MAIN	
		282	AF000558	3300R-T001A	PLATE	LH-C240 PRESS JACK SHIELD GND	
		283	AF000574	3581R-V089B	DOOR ASSEMBLY	HOME THEATER LH-C444M(MP) VCR	
		284	79096419	442-681A	SPRING	DOOR	
		285	AF000573	3580R-T138A	DOOR	HOME THEATER COMBI-TOSHIBA MOL	
		286	AF000422	4970R-0146A	SPRING	PLATE DR4000 SPRING	
		287	AF000562	3508R-H007A	DECORATION	COMBI-TOSHIBA MOLD	
		288	AF000740	3790R-P095A	WINDOW,DECO	HOME LH-C644M MOLD DISPLAY(TOS	

TOSHIBA MODEL : SD-V65HTSC **NSP : Not available as service parts.**

RUN DATE : 28-JUNE-04

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		*** CHASSIS ASSEMBLY ***					
		A44	AF000724	3141R-H025J	CHASSIS ASSEMBLY	LH-C644M ASSY(USA-CANADA)	
		260	AF000555	3211R-H002B	FRAME ASSEMBLY	LH-C444M(MP) MAIN	
		261	AF000554	3210R-H004A	FRAME	HT-V700 MOLD	
		261A	AF000612	5040RL0001A	RUBBER	HOME LH-C641M OTHER FOOT D23*	
		262	AF000556	3300R-H011A	PLATE	COMBI-TOSHIBA PRESS SHIELD FRO	
		330	AF000552	3140R-H003A	CHASSIS	COMBI-81MM PRESS MAIN	
		452	79097906	353-051B	SCREW,DRAWING	SPECIAL	
		*** CABINET ASSEMBLY ***					
		250	AF000547	3091RLP001B	CABINET ASSEMBLY	HOME LH-C444M 200W/400W TOP WI	
		251	AF000546	3090R-H002B	CABINET	COMBI 81MM PRESS TOP 200/400W	
		252	AF000599	4850RL0001A	CUSHION	HOME LH-C641M OTHER CABINET	
		*** DECK ASSEMBLY , MD (DVD) ***					
		A26	AF000643	6721RF0379A	DECK ASSEMBLY,VIDEO	DECK/MECHA DP-7C SLIM (DI)	NSP
		A01	79096511	4861R-0016C	CLAMP ASSEMBLY	DECK/MECHA DISC DP-7 (DI)	
		A02	79096536	3041R-M013C	BASE ASSEMBLY	MAIN DP-7C (DI)	
		A03	79096535	3041R-M016C	BASE ASSEMBLY	SLED DP-7C(DI)	
		001	79097006	3300R-0547A	PLATE	CLAMP	NSP
		002	79097007	5016H-1016B	MAGNET	CLAMP(LDM-R608,10*5,1*1.5T)	NSP
		003	AF000069	4860R-0021A	CLAMP	UPPER DP7	NSP
		004	79097553	4930R-0171A	HOLDER	CLAMP	
		010	79096473	6850R-GK22Z	CABLE,FLAT	P=1.0 FFC UL2896(0.05X0.65) 11	
		010	AF000646	6850R-JK18Z	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 11	
		011	79096531	3210R-M002A	FRAME	UP/DOWN MOLD DP7C	
		011A	79096492	6850R-JW14E	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 23	
		012	79096652	5040R-0075B	RUBBER	DAMPER DP7 (CHUNG PUNG 30)	
		012	AF000076	5040R-0075D	RUBBER	DAMPER DP7 (YAMAUCHI 30)	
		013	AF000050	4400R-0006B	BELT	DECK/MECHA DP2-5, DP7C,DP7A OT	
		014	79096235	4470R-0055A	GEAR	PULLEY	
		015	79096477	6871RZ5130A	PWB(PCB) ASSEMBLY,OTHERS	SUB,L/D (DP-4V,DVD+VCR) DI	
		015A	79096513	4681R-1023E	MOTOR ASSEMBLY	LOADING (DI)	
		015B	79096516	4560R-0008A	PULLEY	MOTOR	
		015C	79096515	4680HP2001A	MOTOR(MECH)	RF-300CH-11440(SHAFT 6.05L)M/C	
		015C	AF000065	4680R-E009A	MOTOR(MECH)	FEEDING RF300EH-1D390 MABUCHI	
		015C	AF000066	4680R-E010A	MOTOR(MECH)	FEEDING BCZ3B51 SANKYO FOR DP7	
		015C	AF000057	4680HP2011A	MOTOR(MECH)	PC200DG-21651C JOHNSON LOADING	
		015C	AF000064	4680R-D003A	MOTOR(MECH)	LOADING RF-300EH-1D390 MABUCHI	
		017	79096236	4470R-0056A	GEAR	LOADING	
		018	79096240	4974R-0023A	GUIDE	UP/DOWN	
		020	AF000020	3040R-M001A	BASE	MAIN MOLD	NSP
		021	AF000062	4680R-C011A	MOTOR(MECH)	SPINDLE JCL9B68 SANKYO FOR COM	
		022	79096514	4681R-0034C	MOTOR ASSEMBLY	DECK/MECHA FEED DP-7C(DI)	
		024	AF000054	4470R-0131A	GEAR	PINION DP7C	
		024A	79096508	5006R-0044A	CAP	SKEW-T DP7C	
		024B	79096509	5006R-0043A	CAP	SKEW DP7C	
		025	79096518	4470R-0130A	GEAR	MIDDLE DP7C	
		026	AF000353	3390R-0017A	TRAY	DVD DISC(DP-7C-SLIM) MOLD	
		028	79096520	4370R-0082B	SHAFT	DECK/MECHA PU R DP-7C OTHER	
		029	AF000049	4370R-0082A	SHAFT	PU DP-7C	
		030	79096517	4471R-0013C	GEAR ASSEMBLY	DECK/MECHA RACK DP-7C(7A) DI	
		031	79096646	6716DPH005A	PICK UP,DVD	PVR-502W MITSUMI PLAYER H/HIGH	
		429	79096221	1SZZR-0012A	SCREW,DRAWING	B-TITE	
		430	79097901	1SZZH-1003A	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/NIY 4.5MM	
		430	79097901	1SZZH-1003A	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/NIY 4.5MM	
		431	79096220	1SZZH-1007B	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	
		431	79096220	1SZZH-1007B	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	
		433	79096541	1SZZR-0050A	SCREW,DRAWING	+ 1 D2.0 L4.5 SWRCH16A/ZNY S-T	
		435	79097902	1SZZR-0011A	SCREW,DRAWING	MACHINE	

MEMO

NOTES) ⚠ Warning Parts that are shaded are critical With respect to risk of fire or electricial shock.

SECTION 6 REPLACEMENT PARTS LIST

TOSHIBA MODEL : SD-V65HTSU **NSP : Not avallable as service parts.**

RUN DATE : 28-JUNE-04

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		*** INDIVIDUAL PARTS ***					
		274	AF000545	255-249C	PLATE	JACK GND (OC 3800S)	
		276	AF000602	4930RL0001A	HOLDER	HOME LH-C641M MOLD FULL TIMER	
		277	AF000610	4940R-V056A	KNOB	HOME COMBI-TOSHIBA MOLD VOL	
⚠		300	79096464	6410RAHP02D	POWER CORD	HIT-110/NISPT-2X18AWG(WITH COR	
		457	79097907	353-051E	SCREW,DRAWING	SPECIAL (3X12)	
		462	79097904	353-046N	SCREW,DRAWING	SPECIAL(3X8 BK.)	
		467	79096043	353-051G	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUN	
		469	AF000544	1SZZR-0081A	SCREW,DRAWING	+ 2 D0.3 L24 MSWR3/FN LH-C444	
		470	AF000355	353-051K	SCREW,DRAWING	+ 2 D3.0 - MSWR3/FN L23.5 X13.	
		471	AF000354	353-051J	SCREW,DRAWING	+ 2 D3.0 L6.5 MSWR3/FN TB ROUN	
		473	AF000719	1SZZR-0080A	SCREW,DRAWING	+ 2 D6.3 L16.0 MSWR3/FN LH-C44	
		*** PACKING ACCESSORY ***					
		801	AF000741	3835RH0033K	INSTRUCTION ASSEMBLY	HOME THEATER LH-C644M.NA1UTTS	
		802	AF000749	3890RCC132C	BOX	LH-C644M NA1UTTS DW2 TOSHIBA	
		803	AF000589	3920RCE088A	PACKING	HOME LH-C444 200 AUDIO	
		804	79096262	292-053B	BAG	SOFT(MIDI)	NSP
		808	79096451	534-008C	BATTERY,MANGANESE	AAAM(R03) SEOTONG 1-5 V - 1PA	
		806	AF000645	6850R-CAA8E	CABLE,COAXIAL	RF CABLE NTSC KOREA/AMERICA/JA	
		810	AF000650	6851R-0039B	CABLE ASSEMBLY	NTSC RF 1.8M + 1W YELLOW 1.8M	
		811	AF000648	6850R-PAA8F	CABLE,COAXIAL	1 WAY COAXIAL DT_HY_HIT_SEIL 1	
		812	AF000649	6850R-PBA8H	CABLE,COAXIAL	2 WAY COAXIAL RED_WHITE DT_HY	
		822	AF000647	6850R-KAEX1	CABLE,COAXIAL	NLB1-91-001 AWG221L 3.5M 3EA,	
		824	79097555	5010R-L002B	ANTENNA,LOOP	S0160BL-09 (LS0160BL-X000009-0	
		825	AF000615	563-655A	ANTENNA,LEAD	LEAD NAMIL 300MM FM 75OHM	
		*** REMOTE CONTROLLER ***					
		900	AF000642	6710CAAZ01D	REMOTE CONTROLLER	KIE 57KEY KIE LH-C444M TOSHIBA	
		*** PWB(PCB) ASSEMBLY , TOTAL POWER ***					
		A48	AF000725	3501R-8300A	BOARD ASSEMBLY	HOME THEATER LH-C641M SMPS	
		A48A	AF000783	6871R-8300A	PWB(PCB) ASSEMBLY,TOTAL	LH-C641M HTC SMPS	
		263	AF000572	3550R-4067A	COVER	VCR INSULATION(PS-BK-F654) OTH	
		264	AF000571	3550R-4066A	COVER	VCR SMPS SHIELD(SLIM-HTC) PRES	
		266	AF000551	3110R-V017A	CASE	SLIM-HTC PRESS .	
		453	79097905	353-051A	SCREW,DRAWING	SPECIAL	
		468	AF000354	353-051J	SCREW,DRAWING	+ 2 D3.0 L6.5 MSWR3/FN TB ROUN	
		BC101	79091008	636-004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P	
		BC111	79091008	636-004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P	
		BD101	AF000701	0DRVH00050A	DIODE,RECTIFIERS	GBU8J VISHAY BK GBU 600V 8A 20	
⚠		C101	79096244	624-088L	CAPACITOR,DRAWING	435D SUNIL ELECTRONICS 0.1UF/2	
⚠		C102	79096244	624-088L	CAPACITOR,DRAWING	435D SUNIL ELECTRONICS 0.1UF/2	
		C103	AF000693	0CE687RR640	CAPACITOR,FIXED ELECTROLYTIC	680UF KMH,HE,GU 250V 20% FM10	
		C104	79096279	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C105	79096279	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C106	79096279	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C107	79096279	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C110	79092033	0CQ1031Y519	CAPACITOR,FIXED FILM	0.01UF D 630V 10% PE NI TP5	
		C111	79096121	0CE1076K618	CAPACITOR,ELECTROLYTIC	100UF SMS 50V M FL TP5	
		C112	AF000514	0CQ4732L439	CAPACITOR,FIXED FILM	0.047UF S 63V 5% M/PE NI TP5	
⚠		C113	AF000697	0CN1520F668	CAPACITOR,TUBULAR(HIGH DIELEC)	1500P 16V M X TA26	
⚠		C114	79096166	0CQ2721N409	CAPACITOR,FIXED FILM	0.0027UF D 100V 5% PE TP5	
		C115	79092001	0CE1064K638	CAPACITOR,FIXED ELECTROLYTIC	10M SRA 50V M FM5 TP(5)	
		C117	79096243	624-087D	CAPACITOR	HI-VOL 470P/1KVDC SMPS SAMHWA	
		C120	79092033	0CQ1031Y519	CAPACITOR,FIXED FILM	0.01UF D 630V 10% PE NI TP5	
		C121	79092035	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
⚠		C122	AF000514	0CQ4732L439	CAPACITOR,FIXED FILM	0.047UF S 63V 5% M/PE NI TP5	
		C123	AF000699	0CQ4711N449	CAPACITOR,FIXED FILM	470PF D 100V 5% PP TP5	
		C124	AF000698	0CN1820F668	CAPACITOR TUBULA(HIGH DIELE)	1800P 16V M X TA26	
		C125	79092001	0CE1064K638	CAPACITOR,FIXED ELECTROLYTIC	10M SRA 50V M FM5 TP(5)	
		C127	79096461	624-087H	CAPACITOR	HIGH-VOL 220PF/1KV CERAMIC	
		C130	790092005	0CE2276F638	CAPACITOR,ELECTROLYTIC	220U SMS 16V M FM5 TP(5)	
		C130	79092005	0CE2276F638	CAPACITOR,ELECTROLYTIC	220U SMS 16V M FM5 TP(5)	
		C131	AF000664	624-087J	CAPACITOR	HIGH-VOL 102PF/1KV CERAMIC	
		C132	AF000502	0CE228ZK610	CAPACITOR,FIXED ELECTROLYTIC	2200UF LXV DOWN 50V 20% FL BUL	
		C133	AF000502	0CE228ZK610	CAPACITOR,FIXED ELECTROLYTIC	2200UF LXV DOWN 50V 20% FL BUL	
		C136	AF000691	0CE1043K638	CAPACITOR,FIXED ELECTROLYTIC	0.1UF SRE,SE 50V 20% FM5 TP 5	
		C137	79092035	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C138	79092035	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C140	79096130	0CE108EH610	CAPACITOR,FIXED ELECTROLYTIC	1000UF KMG 25V 20% BULK FL	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C141	AF000623	624-082G	CAPACITOR,FIXED ELECTROLYTIC	CE 470UF/25V SHL(10*12.5)T/P	
		C142	79096271	0CE228BF630	CAPACITOR,FIXED ELECTROLYTIC	2200UF KME TYPE 16V 20% FM5 BU	
		C144	79096271	0CE228BF630	CAPACITOR,FIXED ELECTROLYTIC	2200UF KME TYPE 16V 20% FM5 BU	
		C146	79096460	624-082H	CAPACITOR	CE 1000UF/10V SHL(10*12.5)T/P	
		C147	79096460	624-082H	CAPACITOR	CE 1000UF/10V SHL(10*12.5)T/P	
		C148	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		D101	79096002	0DD010009CA	DIODE,RECTIFIERS	EG01C TP SANKEN - - - - - -	
		D102	AF000516	0DR180209AA	DIODE,RECTIFIERS	ERA18-02KFRB TP FUJI DO204AL 2	
		D103	AF000516	0DR180209AA	DIODE,RECTIFIERS	ERA18-02KFRB TP FUJI DO204AL 2	
		D104	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D111	79096002	0DD010009CA	DIODE,RECTIFIERS	EG01C TP SANKEN - - - - - -	
		D112	79096001	0DD010009AC	DIODE,RECTIFIERS	EU01W(R-FORM) TP SANKEN	
		D113	79096001	0DD010009AC	DIODE,RECTIFIERS	EU01W(R-FORM) TP SANKEN	
		D114	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D122	AF000517	0DRFC00171A	DIODE,RECTIFIERS	FFPF20U20STU FAIR CHILD ST TO2	
		D122	AF000517	0DRFC00171A	DIODE,RECTIFIERS	FFPF20U20STU FAIR CHILD ST TO2	
		D122	AF000700	0DRFC00191A	DIODE,RECTIFIERS	FFPF30U20STU FAIR CHILD ST TO2	
		D123	79096001	0DD010009AC	DIODE,RECTIFIERS	EU01W(R-FORM) TP SANKEN	
		D124	79096001	0DD010009AC	DIODE,RECTIFIERS	EU01W(R-FORM) TP SANKEN	
		D125	79096001	0DD010009AC	DIODE,RECTIFIERS	EU01W(R-FORM) TP SANKEN	
		D126	AF000517	0DRFC00171A	DIODE,RECTIFIERS	FFPF20U20STU FAIR CHILD ST TO2	
		D127	AF000519	0DRSA00020A	DIODE,RECTIFIERS	FMB-G24H LF651 SANKEN BK NON	
		D127	AF000515	0DR104510AB	DIODE,RECTIFIERS	B10A45V1 NO CUT KEC ST TO220 4	
		D129	AF000519	0DRSA00020A	DIODE,RECTIFIERS	FMB-G24H LF651 SANKEN BK NON	
		D129	AF000515	0DR104510AB	DIODE,RECTIFIERS	B10A45V1 NO CUT KEC ST TO220 4	
⚠		F101	AF000702	0FS8001B51B	FUSE,SLOW BLOW	FUSE 8000MA 250 V 5.2X20 CY/GL	
		F102	79097595	GIRH200000B	IC,ROHM	ICP-N20 T104 TP IC DETACT	
		FH01	79098790	586-008B	HOLDER	FUSE CLIP TP SINSUNG	
		FH02	79098790	586-008B	HOLDER	FUSE CLIP TP SINSUNG	
⚠		IC101	AF000708	0IPMGSK015A	IC,POWER MANAGEMENT	STR-X6757 SANKEN 7PIN TO3PF-7L	
⚠		IC102	79094030	657-063A	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC103	79094010	0IKE431000A	IC,KEC	KIA431 3 PIN TP	
		IC104	AF000709	0IPMGSK016A	IC,POWER MANAGEMENT	STR-W6753 SANKEN 6PIN T0220F-6	
⚠		IC105	79094030	657-063A	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC106	79094010	0IKE431000A	IC,KEC	KIA431 3 PIN TP	
⚠		L101	AF000621	6200JB8013N	FILTER(CIRC),EMC	SQE2828 KWANGSUNG BK 30MH LH-A	
⚠		L102	AF000620	6200JB8009X	FILTER(CIRC),EMC	LINE FILTER(WITH BASE) SAMWHA 15MH	
		L121	79096241	6140RCC002A	COIL,CHOKE	20UH/6A BAR CORE 20UH KWANGS	
		L122	79098794	633-088D	COIL,CHOKE	20UH KWANGSUNG LEAD CUT	
		L123	79098794	633-088D	COIL,CHOKE	20UH KWANGSUNG LEAD CUT	
		L124	79098794	633-088D	COIL,CHOKE	20UH KWANGSUNG LEAD CUT	
		PSV01	AF000758	561-7150	CONNECTOR (CIRC),WAFER	GIL-G-15P-S3T2-E LG CABLE 15P	
		PSW01	AF000759	561-715J	CONNECTOR (CIRC),WAFER	GIL-G-10P-S3T2-E LG CABLE 10PI	
⚠		PW101	79096066	561-292B	CONNECTOR(CIRC),DRAWING	GP390 LGC 3P 3.96 STRAIGHT SN	
		R100	79093009	0RD1504H632	RESISTOR,FIXED CARBON FILM	1.5M OHM 1/2 W 5.00% MF10	
		R104	79093012	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R105	79093012	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R107	79093012	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R108	79093012	0RD2203F608	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R111	79093055	0RS5602K619	RESISTOR,FIXED METAL OXIDE FIL	56K OHM 2 W 5.00% TR	
		R112	79097164	0RD0102F608	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5% TA26	
		R113	79093015	0RD3901F608	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5% TA26	
		R114	79098761	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R115	79093003	0RD1000F608	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5% TA26	
		R116	AF000717	0RS0150K619	RESISTOR,FIXED METAL OXIDE FIL	0.15 OHM 2 W 5% TR	
		R117	AF000717	0RS0150K619	RESISTOR,FIXED METAL OXIDE FIL	0.15 OHM 2 W 5% TR	
		R118	79093006	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R121	AF000543	0RS1803K619	RESISTOR,FIXED METAL OXIDE FIL	180K OHM 2 W 5% TR	
		R122	79097164	0RD0102F608	RESISTOR,FIXED CARBON FILM	10 OHM 1/6 W 5% TA26	
		R123	79093003	0RD1000F608	RESISTOR,FIXED CARBON FILM	100 OHM 1/6 W 5% TA26	
		R124	79098761	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R125	79096339	0RD2700F608	RESISTOR,FIXED CARBON FILM	270 OHM 1/6 W 5% TA26	
		R126	79096376	0RS0350K619	RESISTOR,FIXED METAL OXIDE FIL	0.35 OHM 2 W 5.00% TR	
		R127	79093006	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R128	79093006	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R129	79093006	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R130	79093006	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R132	79093011	0RD2200F608	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R133	79098761	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R134	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R135	79096375	0RN3301F408	RESISTOR,FIXED METAL FILM	3.3K OHM 1/6 W 1% TA26	
		R136	79096374	0RN2701F408	RESISTOR,FIXED METAL FILM	2.7K OHM 1/6 W 1% TA26	
		R137	79096339	0RD2700F608	RESISTOR,FIXED CARBON FILM	270 OHM 1/6 W 5% TA26	
		R138	AF000542	0RS1800K619	RESISTOR,FIXED METAL OXIDE FIL	180 OHM 2 W 5.00% TR	
		R152	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R153	AF000713	0RD3302F608	RESISTOR,FIXED CARBON FILM	33K OHM 1/6 W 5% TA26	
		R154	AF000541	0RN2402F408	RESISTOR,FIXED METAL FILM	24000 OHM 1/6 W 1.00% TA26	
		R155	AF000716	0RN1201F408	RESISTOR,FIXED METAL FILM	1.2K OHM 1/6 W 1% TA26	
		R156	79093016	0RD4700F608	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5% TA26	
		R157	79098760	0RD1501F608	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5% TA26	
		R158	AF000712	0RD1200F608	RESISTOR,FIXED CARBON FILM	120 OHM 1/6 W 5% TA26	
		R171	79093005	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R172	79093005	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R173	79093005	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R184	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R185	79096566	0RD2202F608	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5% TA26	
⚠		T101	AF000766	6170RNGW17V	TRANSFORMER,SMPS[COIL]	EER4220S SAMWHA , ACE 300 UH	
⚠		T102	AF000619	6170RNGW16C	TRANSFORMER,SMPS[COIL]	EER3530 SOOJUNG 580UH	
		TH01	AF000626	6322B62204A	THERMISTOR,PTC	NTPAN4R0LDRB0 MURATA 4.0OHM 15	
⚠		V101	79098795	656-004C	VARISTOR,DRAWING	SVC681D-10A SAMHWA 4.O CUT	
		ZD121	AF000007	0DZ332609FA	DIODE,ZENER	UZ-3.3BSB 26MM TP PYUNG CHANG	
		ZD121	79096315	0DZ332609FA	DIODE,ZENER	UZ-3.3BSB 26MM TP PYUNG CHANG	
		***** BOARD ASSEMBLY , MAIN *****					
		A46	AF000726	3501R-8821D	BOARD ASSEMBLY	HOME THEATER LH-C444M VCR MAI	
		275	AF000601	4930R-0381A	HOLDER	END(S)	
		323	AF000341	3111R-0089E	CASE ASSEMBLY	PRE AMP SLIM COMBI C-CORE A NO	
		C163	79098705	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C164	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C165	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C166	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C167	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C168	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C169	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C170	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C171	AF000503	0CE4764K638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 50V M FM5 TP(5)	
		C172	AF000503	0CE4764K638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 50V M FM5 TP(5)	
		C173	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C174	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C175	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C176	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C177	79098705	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C179	AF000661	0CE1076K638	CAPACITOR,FIXED ELECTROLYTIC	100UF SMS,SG 50V 20% FM5 TP 5	
		C180	79096277	0CE4764H638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 25V M FM5 TP(5)	
		C181	79096277	0CE4764H638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 25V M FM5 TP(5)	
		C301	79096304	0CQ2232L559	CAPACITOR,FIXED FILM	0.022UF S 63V 10% PP NI TP5	
		C302	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C303	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C304	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C305	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C306	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C308	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C310	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C311	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C312	79096273	0CE3364F638	CAPACITOR,ELECTROLYTIC	33M SRA 16V M FM5 TP(5)	
		C313	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C314	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C315	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C316	79096285	0CH1222K516	CHIP CAPA CERAMIC M/L H.D F/S	2200P 50V K B 2.0X1.25 R/TP	
		C317	79096291	0CH1821K516	CAPACITOR,FIXED CERAMIC(Temp.c	820PF 50V 10% B(5YP) 2012 R/TP	
		C318	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C319	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C320	79096299	0CH4391K416	CAPACITOR,CHIP[CERAMIC M/L TC	390PF 50V J NP0 2012 R/TP	
		C321	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C322	79096292	0CH4101K416	CAPA,CHIP CERAMIC M/L T.C F/S	100P 50V J NP0 2.0*1.25 R/TP	
		C323	79096292	0CH4101K416	CAPA,CHIP CERAMIC M/L T.C F/S	100P 50V J NP0 2.0*1.25 R/TP	
		C324	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C325	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C327	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C328	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C329	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C330	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C331	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C332	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C333	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C334	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C335	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C336	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C337	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C338	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C339	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C340	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C341	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C342	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C343	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C344	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C346	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C347	79096290	0CH1473K516	CHIP CAPA CERAMIC M/L H.D F/S	0.047U 50V K X7R 2.0X1.2 R/TP	
		C348	79096290	0CH1473K516	CHIP CAPA CERAMIC M/L H.D F/S	0.047U 50V K X7R 2.0X1.2 R/TP	
		C349	79096288	0CH1333K566	CAPACITOR,CHIP[CERAMIC M/L HD	0.0330UF 50V K X7R(X) 2012 R/T	
		C350	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C351	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C354	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C355	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C360	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C361	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C362	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C370	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C500	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C501	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C502	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C503	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C504	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C505	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C508	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C509	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C510	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C511	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C514	79096296	0CH4240K416	CAPACITOR,CHIP[CERAMIC M/L TC	24PF 50V J NP0 2012 R/TP	
		C515	AF000004	0CH4270K416	CHIP CAPA CERAMIC M/L T.C F/S	27P 50V J COG 2.0X1.2 R/TP	
		C515	79096297	0CH4270K416	CHIP CAPA CERAMIC M/L T.C F/S	27P 50V J COG 2.0X1.2 R/TP	
		C519	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C520	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C521	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C525	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C526	AF000503	0CE4764K638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 50V M FM5 TP(5)	
		C531	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C534	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C535	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C542	79096302	0CH4681K416	CAPA,CHIP CERAMIC M/L T.C F/S	680PF 50V J NP0 2012 R/TP	
		C543	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C544	79096290	0CH1473K516	CHIP CAPA CERAMIC M/L H.D F/S	0.047U 50V K X7R 2.0X1.2 R/TP	
		C545	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C546	79096277	0CE4764H638	CAPACITOR,FIXED ELECTROLYTIC	47M SRA 25V M FM5 TP(5)	
		C551	79096287	0CH1333H516	CHIP CAPA CERAMIC M/L H.D F/S	0.033U 25V K B 2.0X1.25 R/TP	
		C552	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C561	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C566	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C567	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C568	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C569	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C570	79096294	0CH4180K416	CHIP CAPA CERAMIC M/L T.C F/S	18P 50V J C 2.0X1.2 R/TP	
		C571	79096294	0CH4180K416	CHIP CAPA CERAMIC M/L T.C F/S	18P 50V J C 2.0X1.2 R/TP	
		C572	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C573	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C574	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C577	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C578	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C579	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C580	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C581	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C582	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C583	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C584	79096276	0CE4764C638	CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C585	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C586	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C588	79096293	0CH4102K416	CAPACITOR,FIXED CERAMIC(High d	1000PF 50V 5% NP0 2012 R/TP	
		C589	79096295	0CH4221K416	CAPA,CHIP CERAMIC M/L T.C F/S	220P 50V J 2.0X1.25 R/TP	
		C590	79096284	0CH1105F946	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C592	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C593	79096300	0CH4471K416	CAPA,CHIP CERAMIC M/L T.C F/S	470P 50V J 2.0*1.25 R/TP	
		C594	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C595	79096294	0CH4180K416	CHIP CAPA CERAMIC M/L T.C F/S	18P 50V J C 2.0X1.2 R/TP	
		C596	79096600	0CH4150K416	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 2.0X1.2 R/TP	
		C597	79096302	0CH4681K416	CAPA,CHIP CERAMIC M/L T.C F/S	680PF 50V J NP0 2012 R/TP	
		C598	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C599	79096286	0CH1223K516	CAPA,CHIP CERAMIC M/L H.D F/S	0.022U 50V K B 2.0X1.2 R/TP	
		C601	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C602	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C611	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C612	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C613	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C614	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C615	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C616	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C617	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C618	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C701	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C702	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C703	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C704	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C706	79096600	0CH4150K416	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 2.0X1.2 R/TP	
		C707	79096600	0CH4150K416	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 2.0X1.2 R/TP	
		C708	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C712	79096611	0CH1152K516	CAPACITOR,FIXED CERAMIC(Temp.c	1500PF 50V 10% B(5YP) 2012 R/T	
		C730	AF000501	0CE228ED610	CAPACITOR,FIXED ELECTROLYTIC	2200UF KMG,RD 10V 20% FL BULK	
		C731	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C732	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C801	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C803	79096280	0CH1102K516	CHIP CAPA CERAMIC M/L H.D F/S	1000P 50V K B 2.0X1.25 R/TP	
		C804	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		C806	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C807	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C808	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C816	79096269	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C821	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C822	79096285	0CH1222K516	CHIP CAPA CERAMIC M/L H.D F/S	2200P 50V K B 2.0X1.25 R/TP	
		C823	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C825	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C826	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C827	79096284	0CH1105F946	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C828	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C829	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C830	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C831	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C832	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C833	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C834	79096289	0CH1472K516	CAPA,CHIP CERAMIC M/L H.D F/S	4700P 50V K B 2.0*1.25 R/TP	
		C836	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C838	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C839	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C840	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C841	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C842	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C843	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C844	79096289	0CH1472K516	CAPA,CHIP CERAMIC M/L H.D F/S	4700P 50V K B 2.0*1.25 R/TP	
		C845	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C846	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C847	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C848	79096284	0CH1105F946	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C851	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C853	79096280	0CH1102K516	CHIP CAPA CERAMIC M/L H.D F/S	1000P 50V K B 2.0X1.25 R/TP	
		C854	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		C866	79096269	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C871	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C872	79096301	0CH4560K416	CHIP CAPA CERAMIC M/L T.C F/S	56P 50V J NPO 2.0X1.25 R/TP	
		C873	79096269	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C874	79096284	0CH1105F946	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 16V Z Y5V(F) 2012 R/TP	
		C875	79096288	0CH1333K566	CAPACITOR,CHIP[CERAMIC M/L HD	0.0330UF 50V K X7R(X) 2012 R/T	
		C876	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C877	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C878	79096301	0CH4560K416	CHIP CAPA CERAMIC M/L T.C F/S	56P 50V J NPO 2.0X1.25 R/TP	
		C879	79096269	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C880	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C881	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C882	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C883	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C884	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C885	79096283	0CH1104K946	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 80%,-20% Y5V(F)	
		C886	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C887	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C888	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C889	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		CS501	AF000450	6600M000026	SWITCH,PUSH	MPU12970MLB0 VCR CST IN S/W MI	
		D161	79096008	0DR104009AB	DIODE,RECTIFIERS	RL104 R. TP GULF SEMICONDUCTOR	
		D163	79096008	0DR104009AB	DIODE,RECTIFIERS	RL104 R. TP GULF SEMICONDUCTOR	
		D165	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D802	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		ES501	AF000604	4931R-0078C	HOLDER ASSEMBLY	VCR DECK/MECHA END(S)	
		ES502	AF000604	4931R-0078C	HOLDER ASSEMBLY	VCR DECK/MECHA END(S)	
		F616	79091006	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F617	79091006	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F618	79091006	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		FL301	79096463	633-032K	COIL,IFT	NON BIAC OSC,1CHIP 5V(KS-75M)	
		IC160	AF000113	0IPMGJR007A	IC,POWER MANAGEMENT	NJM2396F08 JRC 4PIN TO-220 ST	
		IC160	79098749	0IPMGFA016A	IC,POWER MANAGEMENT	KA78R08TSTU FAIRCHILD 4P TO-22	
		IC160	AF000115	0IPMGSH009A	IC,POWER MANAGEMENT	PQ08RD1L SHARP 4PIN TO-220 ST	
		IC161	AF000160	0ISH313000C	IC,SHARP	PQ3RD13L 4PIN TO-220 ST 3.3V L	
		IC161	79098748	0IPMGFA015A	IC,POWER MANAGEMENT	KA78R33TSTU FAIRCHILD 4P TO-22	
		IC162	AF000528	0IPMGKE046A	IC,POWER MANAGEMENT	KIA78R35API KEC 4PIN,TO-220IS(	
		IC163	AF000527	0IPMGKE018A	IC,POWER MANAGEMENT	KIA78R05API CU KEC 4P TO-220IS	
		IC165	79098740	0IKE781200S	IC,KEC	KIA78R12PI CU 4P TO-220IS ST 1	
		IC301	79096323	0ILNRSA012A	IC,LINEAR	LA71206M-MPB SANYO 80PIN QFP T	
		IC302	79096321	0IJR223400D	IC,JRC	NJM2234L SIP8 ST S/W IC(3INPUT	
		IC501	AF000523	0IMCRMI089A	IC,MICRO CONTROLLER	M3776AMCA-1C7GP MITSUBISHI 100	
		IC503	AF000009	0ICS241600B	IC,CATALYST	CAT24WC16P 8P DIP ST 16K SERIA	
		IC503	79096320	0ICS241600B	IC,CATALYST	CAT24WC16P 8P DIP ST 16K SERIA	
		IC503	AF000662	0ISS241610A	IC,DRAWING	S524A60X51-DCB0 8P DIP ST 16K	
		IC504	79096322	0IKE703100A	IC,KEC	KIA7031P 3P 3.1V RESET(TAPING)	
		IC505	79098739	0IKE704200B	IC,KEC	KIA7042P 3P 4.2V RESET(TAPING)	
		IC506	79097140	0IFA742440F	IC,FAIRCHILD	MM74HCT244SJ 20P SOIC TP 3-STA	
		IC602	79096330	0IPRPMT006A	IC,PERIPHERALS	MM1225XFBE MITSUMI 8PIN SOP R/	
		IC801	AF000297	0ILNRSA013B	IC,LINEAR	LA72670BM-L-MPB-E SANYO 80PIN	
		JK801	AF000637	6612JH003DA	JACK,RCA	RCA-907A-01G YUQIU DIRECTV	
		L301	79098758	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L303	79098758	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L305	79096333	0LR0102K035	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		L501	79098758	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L510	79096335	0LR0682K035	INDUCTOR RADIAL LEAD	68M K 6X6 L5 TP	
		L511	79096334	0LR0221J0N5	INDUCTOR,RADIAL LEAD	2.2UH 5% TP 3X5 TR5	
		L512	79098758	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L706	79096333	0LR0102K035	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		L822	79098758	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		LD501	AF000605	4931R-0086C	HOLDER ASSEMBLY	VCR DECK/MECHA END(S)	
		MS501	AF000635	6600JR3002C	SWITCH,MODE	MMS01180ZMBO MIC 5VDC 1MA D37	
		P3D01	AF000754	561-234S	CONNECTOR (CIRC),FFC/FPC	GF120-9S-TS-A LG CABLE 9P 1.25	
		P3D02	AF000770	6630R5S010A	CONNECTOR(CIRC),DRAWING	GF105-06S-TS LG CABLE 6PIN 2MM	
		P3D03	AF000755	561-251B	CONNECTOR(CIRC),DRAWING	GB201-2P-TS-B(LGC)	
		PMC01	AF000771	6630R-BE01L	CONNECTOR (CIRC),BOARD TO BOAR	JE612-12 JAE EUN 12P 2.0MM	
		PV601	AF000762	561-843L	CONNECTOR(CIRC),DRAWING	TUC-P12P-B1,TAIKO	
		PV602	AF000761	561-843F	CONNECTOR(CIRC),DRAWING	TUC-P07P-B1 TAIKO 7P 2.0MM	
		PVD01	AF000779	6631R-E023C	CONNECTOR ASSEMBLY	8283/9073ST 12 PIN 200M/M UL10	
		PVD02	AF000757	561-686L	CONNECTOR (CIRC),FFC/FPC	00-8370-121-000-800 ELCO 12PIN	
		PVD03	AF000757	561-686L	CONNECTOR (CIRC),FFC/FPC	00-8370-121-000-800 ELCO 12PIN	
		PVD04	AF000756	561-661B	CONNECTOR (CIRC),HOUSING	5267-02A MOLEX 2PIN 2-54MM STR	
		PVS01	AF000758	561-7150	CONNECTOR (CIRC),WAFER	GIL-G-15P-S3T2-E LG CABLE 15P	
		Q161	79097535	0TR320509AB	TRANSISTOR	KTC3205-TP-Y (KTC2236A)KEC	
		Q162	79097535	0TR320509AB	TRANSISTOR	KTC3205-TP-Y (KTC2236A)KEC	
		Q163	79097532	0TR126809BA	TRANSISTOR,BIPOLARS	KTA1268-BL TP KEC	
		Q164	AF000327	0TR928009AD	TRANSISTOR	KSA928A-Y,TO-92L TP SAMSUNG TO	
		Q164	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q166	79097535	0TR320509AB	TRANSISTOR	KTC3205-TP-Y (KTC2236A)KEC	
		Q167	AF000327	0TR928009AD	TRANSISTOR	KSA928A-Y,TO-92L TP SAMSUNG TO	
		Q167	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q168	AF000327	0TR928009AD	TRANSISTOR	KSA928A-Y,TO-92L TP SAMSUNG TO	
		Q168	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q169	79096377	0TR534309BA	TRANSISTOR,BIPOLARS	2SC5343-L TP AUK TO92 -	
		Q301	79095005	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q302	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q303	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q304	79096378	0TR534409AA	TRANSISTOR	2SC5344Y TP	
		Q305	AF000327	0TR928009AD	TRANSISTOR	KSA928A-Y,TO-92L TP SAMSUNG TO	
		Q305	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q306	79095005	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q307	79095005	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q308	AF000327	0TR928009AD	TRANSISTOR	KSA928A-Y,TO-92L TP SAMSUNG TO	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		Q308	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q309	79095001	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q310	79096031	0TR103009AC	TRANSISTOR	KRA103S-T1(PC)22-22 CHIP KEC	
		Q501	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q503	79095003	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q504	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q505	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q506	79095001	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q507	79095005	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q805	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		R161	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R163	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R164	79096346	0RH1003D622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 10 W 2012 5.00% D	
		R165	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R166	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R167	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R168	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R169	79096354	0RH1802D622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 10 W 2012 5.00% D	
		R170	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R171	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R172	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R174	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R175	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R176	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R177	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R178	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R179	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R180	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R181	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R182	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R183	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R301	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R302	79096359	0RH2702D622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	
		R303	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R304	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R305	79096367	0RH5600D622	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 10 W 2012 5.00% D	
		R306	79096562	0RH0472D622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 10 W 2012 5.00% D	
		R307	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R308	79097190	0RH0221D622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 10 W 2012 5.00% D	
		R309	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R310	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R311	79096360	0RH3301D622	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 10 W 2012 5.00% D	
		R312	79096362	0RH3901D622	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 10 W 2012 5.00% D	
		R313	79096353	0RH1801D622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 10 W 2012 5.00% D	
		R317	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R318	79096555	0RH3303D622	RESISTOR,METAL GLAZED(CHIP)	330K OHM 1 / 10 W 2012 5.00% D	
		R319	79096349	0RH1202D622	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 10 W 2012 5.00% D	
		R320	AF000536	0RH1200D622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 10 W 2012 5.00% D	
		R321	79096359	0RH2702D622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	
		R322	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R324	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R325	79096556	0RH3300D622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 10 W 2012 5.00% D	
		R326	79096351	0RH1502D622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 10 W 2012 5.00% D	
		R327	79096370	0RH6801D622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 10 W 2012 5.00% D	
		R328	79096350	0RH1501D622	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 10 W 2012 5.00% D	
		R331	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R332	79096353	0RH1801D622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 10 W 2012 5.00% D	
		R333	79096348	0RH1201D622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 10 W 2012 5.00% D	
		R335	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R336	79096349	0RH1202D622	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 10 W 2012 5.00% D	
		R337	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R338	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R339	79096354	0RH1802D622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 10 W 2012 5.00% D	
		R340	79096350	0RH1501D622	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 10 W 2012 5.00% D	
		R341	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R342	79096364	0RH4700D622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 10 W 2012 5.00% D	
		R344	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R345	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R346	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R348	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R501	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R502	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R504	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R505	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R507	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R508	79096359	0RH2702D622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	
		R509	79096369	0RH6800D622	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 10 W 2012 5.00% D	
		R510	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R511	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R512	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R514	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R515	79096558	0RH2700D622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 10 W 2012 5.00% D	
		R517	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R521	79096358	0RH2701D622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R522	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R523	79096551	0RH5601D622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 10 W 2012 5.00% D	
		R524	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R525	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R526	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R528	79096358	0RH2701D622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R529	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R530	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R531	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R533	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R534	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R535	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R536	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R537	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R538	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R541	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R543	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R544	79096346	0RH1003D622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 10 W 2012 5.00% D	
		R545	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R546	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R547	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R548	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R550	79096355	0RH2200D622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D	
		R553	79096355	0RH2200D622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D	
		R554	79096347	0RH1004D622	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 10 W 2012 5.00% D	
		R555	79096355	0RH2200D622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D	
		R556	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R557	79096359	0RH2702D622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	
		R558	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R563	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R564	79096359	0RH2702D622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 10 W 2012 5.00% D	
		R566	79096358	0RH2701D622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R569	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R570	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R571	79096355	0RH2200D622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 10 W 2012 5.00% D	
		R575	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R576	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R577	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R578	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R579	79096368	0RH5602D622	RESISTOR,METAL GLAZED(CHIP)	56K OHM 1 / 10 W 2012 5.00% D	
		R580	79096351	0RH1502D622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 10 W 2012 5.00% D	
		R581	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R582	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R583	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R586	79096353	0RH1801D622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 10 W 2012 5.00% D	
		R587	79096353	0RH1801D622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 10 W 2012 5.00% D	
		R588	79096358	0RH2701D622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R589	79096350	0RH1501D622	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 10 W 2012 5.00% D	
		R592	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R593	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R594	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R595	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R596	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R597	79096356	0RH2201D622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 10 W 2012 5.00% D	
		R598	79096348	0RH1201D622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 10 W 2012 5.00% D	
		R599	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R5C6	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R5D1	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		R5V1	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R5V2	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R616	79096343	0RH0752D622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 10 W 2012 5.00% D	
		R617	79096343	0RH0752D622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 10 W 2012 5.00% D	
		R618	79096343	0RH0752D622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 10 W 2012 5.00% D	
		R625	79096343	0RH0752D622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 10 W 2012 5.00% D	
		R626	79096373	0RH8202D622	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 10 W 2012 5.00% D	
		R627	79096373	0RH8202D622	RESISTOR,METAL GLAZED(CHIP)	82K OHM 1 / 10 W 2012 5.00% D	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R628	79096343	0RH0752D622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 10 W 2012 5.00% D	
		R702	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R703	79096362	0RH3901D622	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 10 W 2012 5.00% D	
		R706	79096369	0RH6800D622	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 10 W 2012 5.00% D	
		R707	79096369	0RH6800D622	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 10 W 2012 5.00% D	
		R708	AF000017	0RH3302D622	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 10 W 2012 5.00% D	
		R711	79096344	0RH1001D622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 10 W 2012 5.00% D	
		R801	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R802	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R804	79096551	0RH5601D622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 10 W 2012 5.00% D	
		R805	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R806	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R807	79096549	0RH6802D622	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 10 W 2012 5.00% D	
		R808	79096357	0RH2202D622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 10 W 2012 5.00% D	
		R809	79096352	0RH1800D622	RESISTOR,METAL GLAZED(CHIP)	180 OHM 1 / 10 W 2012 5.00% D	
		R810	79096353	0RH1801D622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 10 W 2012 5.00% D	
		R811	79096549	0RH6802D622	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 10 W 2012 5.00% D	
		R812	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R813	79096549	0RH6802D622	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 10 W 2012 5.00% D	
		R814	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R817	79096351	0RH1502D622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 10 W 2012 5.00% D	
		R818	79096551	0RH5601D622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 10 W 2012 5.00% D	
		R821	79096345	0RH1002D622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 10 W 2012 5.00% D	
		R822	79096346	0RH1003D622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 10 W 2012 5.00% D	
		R823	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R835	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R836	79096364	0RH4700D622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 10 W 2012 5.00% D	
		R837	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R838	79096358	0RH2701D622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 10 W 2012 5.00% D	
		R839	79096363	0RH3902D622	RESISTOR,METAL GLAZED(CHIP)	39K OHM 1 / 10 W 2012 5.00% D	
		R840	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		R842	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R843	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R844	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R845	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R851	79096212	0RH1000D622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 10 W 2012 5.00% D	
		R856	79096372	0RH8201D622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 10 W 2012 5.00% D	
		R857	79096549	0RH6802D622	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 10 W 2012 5.00% D	
		R858	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R866	79096366	0RH4702D622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 10 W 2012 5.00% D	
		R867	79096351	0RH1502D622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 10 W 2012 5.00% D	
		R874	79096365	0RH4701D622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 10 W 2012 5.00% D	
		RS501	AF000633	6500RAB009A	SENSOR	KIT-3001B KODENSHI KOREA 4PIN	
		RS502	AF000633	6500RAB009A	SENSOR	KIT-3001B KODENSHI KOREA 4PIN	
		TU701	AF000459	6700NFNL05A	TUNER	TADM-H202F(US.LGIT) LG INOTEK	
		TU701	AF000458	6700NFNG05A	TUNER	TCMN0682PA20C4(US,ss) SS NTSC	
		X301	AF000622	6202R1357AE	RESONATOR,CRYSTAL	HC49U SSANG TAE 3-579575MHZ 15	
		X501	79096501	6202R-DA01B	RESONATOR,CRYSTAL	CFS-308 CITIZEN 32.768KHZ +/-	
		X501	AF000082	6212AC2327E	RESONATOR,CRYSTAL	C-001R SEIKO EPSON 32.768 KHZ	
		X502	79096458	6202R1143DC	RESONATOR,CRYSTAL	H49U BUBANG 14-31818HZ 25PPM 1	
		ZD161	AF000522	0DZ560009CB	DIODE,ZENER	MTZ5.6C TP(26MM) ROHM 5.6V	
		ZD161	79096317	0DZ562609AB	DIODE,ZENER	UZ-5.6BSC 26MM TP PYUNG CHANG	
		ZD162	AF000520	0DZ100009HA	DIODE,ZENERS	UZ-10BM TP PYUNG CHANG - 0.5W	
		ZD163	AF000520	0DZ100009HA	DIODE,ZENERS	UZ-10BM TP PYUNG CHANG - 0.5W	
		***** DECK ASSEMBLY , VIDEO(VCR) *****					
		A00	AF000644	6721RF0940A	DECK ASSEMBLY,VIDEO	DECK/MECHA D37(N) DI (4HF, NT,	NSP
		A01	AF000470	6723R-0603E	DRUM(CIRC) ASSEMBLY	DECK/MECHA (9C6S) D37-6CH NTSC	
		A03	AF000380	4261R-0039A	ARM ASSEMBLY	DECK/MECHA CLEANER - D37	
		A11	AF000401	4471R-0017A	GEAR ASSEMBLY	DECK/MECHA P3 - D37	
		A12	AF000399	4471R-0015A	GEAR ASSEMBLY	DECK/MECHA P2 - D37	
		A21	AF000419	4931R-0084A	HOLDER ASSEMBLY	DECK/MECHA CST - D37	
		A22	AF000400	4471R-0016A	GEAR ASSEMBLY	DECK/MECHA RACK F/L - D37	
		A23	AF000379	4261R-0038A	ARM ASSEMBLY	DECK/MECHA F/L - D37	
		A24	AF000593	4511R-0004A	LEVER ASSEMBLY	SWIHCH(V) - D37	
		003	AF000600	4930R-0376A	HOLDER	DECK/MECHA FPCB(6CH) - D35S, D	
		004	AF000611	5006R-0042A	CAP	DECK/MECHA FPCB - D35S, D37V O	
		006	AF000056	4580R-0004A	ROLLER	CLEANER	NSP
		007	AF000376	4260R-0053A	ARM	DECK/MECHA CLEANER MOLD - D37	NSP
		008	AF000473	6850R-HG18Y	CABLE,FLAT	P=1.25 FFC UL2896(0.05X0.8) 7	
		009	AF000377	4260R-0056A	ARM	DECK/MECHA T/UP OTHER - D37	
		011	AF000381	4261R-0040A	ARM ASSEMBLY	DECK/MECHA TENSION - D37	
		012	AF000337	3041R-M037A	BASE ASSEMBLY	P2 -D37	
		012	AF000721	3041R-M037B	BASE ASSEMBLY	P2 - D37	
		013	AF000338	3041R-M038A	BASE ASSEMBLY	P3 - D37	
		013	AF000722	3041R-M038B	BASE ASSEMBLY	P3 - D37	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		014	AF000339	3041R-M039A	BASE ASSEMBLY	P4 - D37	
		015	AF000431	5870R-0007A	OPENER	DECK/MECHA LID OTHER - D37	
		016	AF000335	3041R-M036A	BASE ASSEMBLY	A/C HEAD (ALPS) - D37	
		016	AF000336	3041R-M036B	BASE ASSEMBLY	A/C HEAD (TDK) - D37	
		017	AF000388	4408R-0005A	REEL	DECK/MECHA S OTHER - D37	
		021	AF000391	4421R-M002A	BRAKE ASSEMBLY	T - D37	
		022	AF000634	6520D00004A	HEAD(CIRC)	ST ST FE HEAD FOR D37	
		023	AF000331	3040R-M056A	BASE	LOADING OTHER - D37	
		024	AF000383	4261R-0042A	ARM ASSEMBLY	DECK/MECHA IDLER(N) - D37	
		026	AF000412	4681RF0039A	MOTOR ASSEMBLY	DECK/MECHA L/D - (DI) D37	
		027	AF000392	4470R-0133A	GEAR	DECK/MECHA WHEEL OTHER - D37	
		028	AF000389	4408R-0006A	REEL	DECK/MECHA T OTHER - D37	
		029	AF000378	4261R-0037A	ARM ASSEMBLY	DECK/MECHA PINCH - D37 (CHON P	
		029	AF000671	4261R-0037B	ARM ASSEMBLY	DECK/MECHA PINCH - D37 (YAMAUC	
		029	AF000663	4261R-0037C	ARM ASSEMBLY	DECK/MECHA PINCH - D37 (MEIJI)	
		031	AF000427	4970R-0175A	SPRING	COIL TENSION - D37	
		032	AF000344	3141R-M002A	CHASSIS ASSEMBLY	D37	NSP
		051	79096414	4400R-0005A	BELT	CAPSTAN	
		052	AF000409	4680R-A015A	MOTOR(MECH)	CAPSTAN F2QVB66 SANKYO FOR D37	
		052	AF000411	4680R-A017A	MOTOR(MECH)	CAPSTAN DMVCMC20L SAMSUNG FOR	
		052	AF000410	4680R-A016A	MOTOR(MECH)	CAPSTAN MCVC-037AA LGIT FOR D3	
		052A	AF000428	4980R-0029A	SUPPORTER	DECK/MECHA CAPSTAN OTHER - D37	
		054	AF000395	4470R-0136A	GEAR	DECK/MECHA RACK F/L OTHER - D3	
		054A	AF000425	4970R-0171A	SPRING	COIL RACK F/L - D37	
		055	AF000397	4470R-0140A	GEAR	DECK/MECHA DRIVE OTHER - D37	
		056	AF000396	4470R-0139A	GEAR	DECK/MECHA CAM OTHER - D37	
		058	AF000390	4421R-M001A	BRAKE ASSEMBLY	CAPSTAN -D37	
		060	AF000406	4510R-0065A	LEVER	DECK/MECHA F/R OTHER - D37	
		061	AF000386	4265R-0007A	CLUTCH ASSEMBLY	DECK/MECHA D37(N)	
		064	AF000398	4470R-0141A	GEAR	DECK/MECHA SECTOR OTHER - D37	
		065	AF000385	4261R-0044A	ARM ASSEMBLY	DECK/MECHA P3 - D37	NSP
		066	AF000073	4970R-0122A	SPRING	COIL D35	NSP
		067	AF000394	4470R-0135A	GEAR	DECK/MECHA P3 OTHER - D37	NSP
		068	AF000393	4470R-0134A	GEAR	DECK/MECHA P2 OTHER - D37	NSP
		069	AF000073	4970R-0122A	SPRING	COIL D35	NSP
		070	AF000384	4261R-0043A	ARM ASSEMBLY	DECK/MECHA P2 - D37	NSP
		076	AF000404	4510R-0063A	LEVER	DECK/MECHA SPRING OTHER - D37	
		077	AF000350	3300R-M203A	PLATE	SLIDER OTHER - D37	
		078	AF000403	4510R-0062A	LEVER	DECK/MECHA TENSION OTHER - D37	
		079	AF000332	3040R-M057A	BASE	TENSION OTHER - D37	
		080	AF000405	4510R-0064A	LEVER	DECK/MECHA BRAKE OTHER - D37	
		100	AF000557	3300R-M202A	PLATE	TOP OTHER - D37	
		102	AF000426	4970R-0173A	SPRING	COIL STOPPER - D37	
		103	AF000417	4930R-0452A	HOLDER	DECK/MECHA SIDE (L) OTHER - D3	NSP
		105	AF000415	4930R-0450A	HOLDER	DECK/MECHA CST OTHER - D37	NSP
		106	AF000416	4930R-0451A	HOLDER	DECK/MECHA SIDE(R) OTHER - D37	NSP
		107	AF000402	4510R-0061A	LEVER	DECK/MECHA STOPPER OTHER - D37	NSP
		109	AF000432	5870R-0008A	OPENER	DECK/MECHA DOOR OTHER - D37	
		110	AF000374	4260R-0051A	ARM	DECK/MECHA F/L(L) OTHER - D37	NSP
		112	AF000021	3070R-0002A	BODY	F/L	NSP
		113	AF000424	4970R-0169A	SPRING	COIL F/L(R) - D37	NSP
		114	AF000375	4260R-0052A	ARM	DECK/MECHA F/L (R) OTHER - D37	NSP
		115	AF000592	4510R-0060A	LEVER	DECK/MECHA SWITCH(V) OTHER - D	
		116	AF000423	4970R-0163A	SPRING	COIL D35S SWITCH	
		405	AF000718	1MPC0301270	SCREW MACHINE,PAN HEAD	D3.0 L3.5 SWRCH18A/FZW	
		406	79096381	1MEC0302018	PAN HEAD MACHINE SCREW S/W +	D 3.0 L 6.0 MSWR3/FZY	
		409	79096384	1SZZR-0032B	SCREW,DRAWING	+ 1 D2.6 L5.0 SWRCH18A/FZY TAP	
		410	79096379	1APF0262218	SCREW TAP TITE(B),PAN HEAD	D2.6 L6.8 MSWR3/FZY	
		517	79096386	1WZZR-0004D	WASHER,DRAWING	STOPPER	
		518	79096385	1WZZR-0004A	WASHER,DRAWING	STOPPER	
		***** PWB(PCB) ASSEMBLY , TOTAL TIMER/KEY *****					
		A50	AF000652	6871R-5581A	PWB(PCB) ASSEMBLY,TOTAL	LH-C444M KEY & TIMER ASSY	
		276B	AF000603	4930RL5001A	HOLDER	HOME LH-C641M MOLD DISPLAY (VF	
		C601	AF000511	0CN1050K948	CAPACITOR,TUBULAR(HIGH DIELEC)	1UF 50V Z F TA26 D	
		C602	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C603	79096303	0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	
		C604	79098728	0CN1040K948	CAPACITOR,FIXED TUBULAR(HIGH D	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C606	79098728	0CN1040K948	CAPACITOR,FIXED TUBULAR(HIGH D	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C609	790971234	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C609	79097123	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C610	790971234	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C610	79097123	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C611	790971234	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C611	79097123	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C612	790971234	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C612	79097123	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C615	AF000511	0CN1050K948	CAPACITOR,TUBULAR(HIGH DIELEC)	1UF 50V Z F TA26 D	
		C616	AF000511	0CN1050K948	CAPACITOR,TUBULAR(HIGH DIELEC)	1UF 50V Z F TA26 D	
		C6G1	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C6G2	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G10	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G3	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G4	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G5	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G6	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G7	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G8	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		C9G9	AF000512	0CN2210K518	CAPACITOR TUBULA(HIGH DIELE)	220P 50V K B TA26	
		DIG601	AF000625	6302R-V212A	DIGITRON	12-BT-156GNK FUTABA SEG VFD CO	
		IC601	79096331	0IPRPNE001A	IC,PERIPHERALS	UPD16315GB-3BS NEC 44 QFP BK F	
		IC601	AF000013	0IPRPPY002A	IC,PERIPHERALS	PT6315 PTC 44 LQFP TRAY VFD DR	
		JK601	AF000456	6612JH003AD	JACK,RCA	RCA-102H(BK) YUQIU BLACK	
		JK602	AF000456	6612JH003AD	JACK,RCA	RCA-102H(BK) YUQIU BLACK	
		JK603	AF000456	6612JH003AD	JACK,RCA	RCA-102H(BK) YUQIU BLACK	
		L601	79096336	0LR8200J025	INDUCTOR,RADIAL LEAD	820UH 5% 4X5 TR5	
		L602	79096332	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L603	79096332	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		P6602	AF000776	6630S-BC02H	CONNECTOR (CIRC),BOARD TO BOAR	53045-0811 J-MOLEX 8PIN 1-25MM	
		P6603	AF000775	6630S-BC01H	CONNECTOR (CIRC),BOARD TO BOAR	52061-0811 J-MOLEX 8PIN 1-25MM	
		P6M01	AF000765	561-844L	CONNECTOR(CIRC),DRAWING	TUC-P12X-B1,TAIKO	
		P6M02	AF000764	561-844F	CONNECTOR(CIRC),DRAWING	TUC-P07X-B1 TAIKO 7P 2.0MM	
		R601	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R602	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R603	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R604	79093019	0RD6802F608	RESISTOR,FIXED CARBON FILM	68K OHM 1/6 W 5% TA26	
		R605	79093014	0RD3300F608	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5% TA26	
		R606	79096028	0RD0471F608	RESISTOR,FIXED CARBON FILM	4.7 OHM 1/6 W 5% TA26	
		R607	79096028	0RD0471F608	RESISTOR,FIXED CARBON FILM	4.7 OHM 1/6 W 5% TA26	
		R608	AF000533	0RD0122F608	RESISTOR,FIXED CARBON FILM	12 OHM 1/6 W 5.00% TA26	
		R609	AF000533	0RD0122F608	RESISTOR,FIXED CARBON FILM	12 OHM 1/6 W 5.00% TA26	
		R612	79098764	0RD6800F608	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5% TA26	
		R613	79098765	0RD8200F608	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5% TA26	
		R614	79093007	0RD1201F608	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R614	79096185	0RD1201F608	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R615	79098760	0RD1501F608	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5% TA26	
		R616	79098761	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R617	79098762	0RD3301F608	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5% TA26	
		R618	79093017	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R619	79098766	0RD8201F608	RESISTOR,FIXED CARBON FILM	8.2K OHM 1/6 W 5% TA26	
		R632	79098762	0RD3301F608	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5% TA26	
		R633	79098761	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R634	79098760	0RD1501F608	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5% TA26	
		R635	79093007	0RD1201F608	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R635	79096185	0RD1201F608	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R636	79098765	0RD8200F608	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5% TA26	
		R637	79098764	0RD6800F608	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5% TA26	
		R641	79098759	0RD0752F608	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26	
		R642	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R643	79093004	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		RC601	AF000465	6712R1638GB	REMOTE CONTROLLER RECEIVER	TSOP4438RF1 VISHAY 38KHZ =TSOP	
		SW601	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW602	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW603	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW604	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW605	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW606	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW607	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW608	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW609	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW631	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW631	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW632	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW632	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW633	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW633	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW634	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW634	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW635	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW635	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW636	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		SW636	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW637	79098789	556-282C	SWITCH,TACT	SKQNQED ALPS DC 12 V 50 MA TA	
		SW637	79097338	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		VR601	79097560	6110S-ET01A	VOLUME,ENCODER	EC16B242040M ALPS - D=16 V 24	
		*** SUB ASSEMBLY , MAIN(DVD) ***					
		A46A	AF000788	6885R-6559A	SUB PWB(PCB) ASSEMBLY	5553 0067 1005 7CA3 0000 0000	
		322	AF000752	4920R-E010A	HEAT SINK	AL EX 124 X 39 X 42 LH-C641M P	
⚠		C101	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
⚠		C102	79096269	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C103	79098720	0CH4180K412	CAPACITOR,CHIP[CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/TP	
		C104	79098720	0CH4180K412	CAPACITOR,CHIP[CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/TP	
		C108	790092005	0CE2276F638	CAPACITOR,ELECTROLYTIC	220U SMS 16V M FM5 TP(5)	
		C108	79092005	0CE2276F638	CAPACITOR,ELECTROLYTIC	220U SMS 16V M FM5 TP(5)	
		C109	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C119	79098717	0CH1332K562	CAPACITOR,CHIP[CERAMIC M/L HD	3300P 50V K X7R 1.6X0.8 R/TP	
		C120	79098717	0CH1332K562	CAPACITOR,CHIP[CERAMIC M/L HD	3300P 50V K X7R 1.6X0.8 R/TP	
		C126	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C127	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C128	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C133	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C134	79096146	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C135	79096146	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C136	79096146	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C141	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C146	AF000505	0CE4776F638	CAPACITOR,FIXED ELECTROLYTIC	470UF SMS,SG 16V 20% FM5 TP 5	
		C147	79096275	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C202	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C203	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C204	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C205	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C206	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C207	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		C208	79096125	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C209	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C210	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C211	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C213	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C214	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C215	79096131	0CE2256K618	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SMS,SG 50V 20% FL TP 5	
		C216	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C220	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C221	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C222	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C223	79096142	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C224	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C226	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C230	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C232	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C233	79096152	0CH4100K412	CAPACITOR,CHIP[CERAMIC M/L TC	10PF 50V J NP0 1608 R/TP	
		C234	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C235	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C236	79096152	0CH4100K412	CAPACITOR,CHIP[CERAMIC M/L TC	10PF 50V J NP0 1608 R/TP	
		C301	79096146	0CE4776D618	CAPACITOR,ELECTROLYTIC	470M SMS 10V M FL TP(5)	
		C302	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C305	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C306	79098706	0CE1086C638	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C307	79096125	0CE1076D618	CAPACITOR,ELECTROLYTIC	100M SMS 10V M FM5 TP(5)	
		C309	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C311	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C312	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C313	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C314	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C315	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C316	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C317	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C318	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C319	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C320	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C321	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C322	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C323	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C325	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C326	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C327	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C328	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C329	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C330	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C331	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C332	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C333	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C334	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C335	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C336	79092021	0CH1473H942	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C337	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C338	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C339	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C351	79096154	0CH4331K412	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C352	79096154	0CH4331K412	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C353	79096154	0CH4331K412	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C354	79096154	0CH4331K412	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J COG 1.6X0.8 R/TP	
		C355	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C356	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C357	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C358	79096272	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C359	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C360	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C361	79096596	0CH4471K412	CAPACITOR,CHIP[CERAMIC M/L TC	470PF 50V J NP0 1508 R/TP	
		C362	79096596	0CH4471K412	CAPACITOR,CHIP[CERAMIC M/L TC	470PF 50V J NP0 1508 R/TP	
		C363	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C364	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C365	79096142	0CE4766F618	CAPACITOR,ELECTROLYTIC	47M SMS 16V M FL TP(5)	
		C366	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C367	79096126	0CE1076F618	CAPACITOR,ELECTROLYTIC	100M SMS 16V M FM5 TP(5)	
		C368	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C369	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C401	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C402	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C403	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C406	79098705	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C407	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C408	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C411	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C412	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C413	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C414	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C431	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C432	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C433	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C434	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C439	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C440	79096609	0CH1153K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C441	AF000504	0CE4774D638	CAPACITOR,FIXED ELECTROLYTIC	470UF SRA,SS 10V 20% FM5 TP 5	
		C443	79096595	0CH4561K412	CAPACITOR,FIXED CERAMIC(High d	560PF 50V 5% NP0 1608 R/TP	
		C444	79096595	0CH4561K412	CAPACITOR,FIXED CERAMIC(High d	560PF 50V 5% NP0 1608 R/TP	
		C445	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C451	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C452	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C453	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C454	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C455	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C457	79098715	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C458	79098715	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C459	79098715	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C460	79098715	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C461	79098715	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C462	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C463	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C464	79096609	0CH1153K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C465	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C466	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C467	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C468	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C469	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C470	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C471	79096598	0CH4391K412	CAPACITOR,CHIP[CERAMIC M/L TC	390PF 50V J NP0 1508 R/TP	
		C472	79096598	0CH4391K412	CAPACITOR,CHIP[CERAMIC M/L TC	390PF 50V J NP0 1508 R/TP	
		C473	79092019	0CH1333K562	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	
		C474	79096596	0CH4471K412	CAPACITOR,CHIP[CERAMIC M/L TC	470PF 50V J NP0 1508 R/TP	
		C476	79092023	0CH4100K112	CHIP CAPA CERAMIC M/L T.C F/S	10P 50V D COG 1.6X0.8 R/TP	
		C477	79096609	0CH1153K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C478	79098721	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C479	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C480	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C481	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C482	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C483	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C491	79098705	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C492	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C493	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C495	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C496	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C497	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C498	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C499	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C502	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C503	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C504	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C505	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C506	79097121	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C507	79092013	0CH1103K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C508	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C509	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C510	79097121	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C511	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C513	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C514	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C515	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C516	79092018	0CH1225F944	CAPACITOR,FIXED CERAMIC(Temp.c	2.2UF 16V 80%,-20% Y5V(F) 3216	
		C517	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C518	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C519	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C520	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C521	79092018	0CH1225F944	CAPACITOR,FIXED CERAMIC(Temp.c	2.2UF 16V 80%,-20% Y5V(F) 3216	
		C522	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C523	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C524	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C525	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C526	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C527	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C528	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C529	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C530	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C531	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C532	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C533	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C534	79097106	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C535	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C536	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C537	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C538	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C539	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C540	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C541	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C542	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C543	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C544	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C545	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C554	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C555	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C556	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C557	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C558	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C559	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C560	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C561	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C563	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C564	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C565	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C566	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C567	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C568	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C569	79092025	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C573	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C575	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C576	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C577	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C578	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C579	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C580	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C581	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C582	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C583	79098709	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C584	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C585	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C586	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C587	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C588	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C589	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C590	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C591	79098720	0CH4180K412	CAPACITOR,CHIP[CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/TP	
		C592	79092026	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C593	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C594	79097108	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C595	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C596	79098714	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C597	79096155	0CH4470K412	CAPA,CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C598	AF000500	0CE108CC638	CAPACITOR,FIXED ELECTROLYTIC	1000UF SHL,SD 6.3V 20% FM5 TP	
		C599	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C5A1	79097104	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C5A2	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C601	79098706	0CE1086C638	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C602	79098702	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C603	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C604	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C606	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C665	79096020	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C666	AF000270	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C700	79096137	0CE228EK650	CAPACITOR,FIXED ELECTROLYTIC	2200UF KMG 50V 20% FM7.5 BULK	
		C701	79096137	0CE228EK650	CAPACITOR,FIXED ELECTROLYTIC	2200UF KMG 50V 20% FM7.5 BULK	
		C703	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C704	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C705	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C706	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C707	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C708	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C709	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C710	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C711	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C712	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C713	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C714	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C715	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C716	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C717	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C718	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C719	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C720	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C721	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C722	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C723	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C724	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C725	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C726	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C727	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C728	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C729	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C730	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C731	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C732	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C733	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C734	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C735	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C736	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C737	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C738	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C739	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C740	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C741	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C742	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C743	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C744	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C745	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C746	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C747	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C748	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C749	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C750	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C751	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C752	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C753	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C754	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C755	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C756	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C757	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C758	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C762	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C763	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C764	79096281	0CH1103K516	CHIP CAPA CERAMIC M/L H.D F/S	0.01U 50V K B 2.0X1.25 R/TP	
		C765	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C766	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C767	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C768	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C769	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C770	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C771	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C772	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C773	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C774	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C775	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C776	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C777	79096149	0CH1104K566	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 2012 50V 10% X7R(X) R/TP	
		C778	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C779	AF000510	0CH4331K416	CAPACITOR,CHIP[CERAMIC M/L TC	330P 50V J NP0 2.0X1.2 R/TP	
		C785	AF000499	0CE107BK618	CAPACITOR,FIXED ELECTROLYTIC	100UF KME TYPE 50V 20% FL TP 5	
		C786	79096158	0CK105EK94A	CAPACITOR,FIXED CERAMIC(High d	1UF 3216 50V 80%,-20% R/TP F(Y	
		C788	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C789	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C811	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C812	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C813	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		C821	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C822	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C823	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		C831	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C832	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C833	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		C841	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C842	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C843	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		C861	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C862	79096164	0CQ1041N409	CAPACITOR,FIXED FILM	0.1UF D 100V 5% PE TP5	
		C863	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		C871	79096169	0CQ4742L439	CAPACITOR,FIXED FILM	0.47UF S 63V 5% M/PE NI TP5	
		D301	79096008	0DR104009AB	DIODE,RECTIFIERS	RL104 R. TP GULF SEMICONDUCTOR	
		D302	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D501	79096008	0DR104009AB	DIODE,RECTIFIERS	RL104 R. TP GULF SEMICONDUCTOR	
		D603	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D604	79096305	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		F502	79096503	6200JB8010V	FILTER(CIRC),EMC	LFA20-2A1E473MT MITSUBISHI MAT	
		F604	79091006	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F605	79091006	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
⚠		IC101	AF000524	0IMCRSA076A	IC,MICRO CONTROLLER	LC875747B-53M2 SANYO 64PIN QFP	
		IC103	79096322	0IKE703100A	IC,KEC	KIA7031P 3P 3.1V RESET(TAPING)	
		IC202	AF000530	0IPRPAK005A	IC,PERIPHERALS	AK4586VQ AKM 44 PIN LQFP TRAY	
		IC203	AF000531	0IPRPMT007A	IC,PERIPHERALS	MM1231XF MITSUMI 16PIN SOP ST	
		IC204	AF000298	0ILNRUC001A	IC,LINEAR	MC4580 UTC 8PIN,SOP R/TP 2CH O	
		IC205	79097520	0IJR456000B	IC,JRC	NJM4560M-TE1-DMP,OP AMP.JRC	
		IC301	AF000529	0IPMGPV002A	IC,POWER MANAGEMENT	PS9818 PULSUS 100PIN,QFP TRAY	
		IC401	79096585	0ILNRNF006A	IC,LINEAR	MT1336E/BP MEDIATEK INCORPORAT	
		IC402	79096576	0IPRPSA010A	IC,PERIPHERALS	LA6560-A-TE-L SANYO HSOP-36R R	
		IC501	AF000154	0ILNRNF008B	IC,LINEAR	MT1379EEC,EEC/CA MEDIATEK INCO	
		IC505	79096693	0ISS240210A	IC,SAMSUNG ELECTRONICS	S524A40X21-SCT0 SOP8 TP EEPROM	
		IC506	AF000264	0IMMRHY001E	IC,MEMORIES	HY57V641620HGT-7 HYUNDAI 54PIN	
		IC507	79096577	0IPRPMT008A	IC,PERIPHERALS	MM1623XFBE MITSUMI 28PIN SOP R	
		IC5A1	AF000186	0IMMRFU011A	IC,MEMORIES	MBM29LV160TE70NC FUJITSU 48PIN	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		IC5A1A	AF000656	6957R-645AA	PROGRAM	#1 ESF TOSHIBA MTK LH-C444M DV	
		IC710	AF000711	0IPRPSG033A	IC,PERIPHERALS	STA-508 STM 36PIN,POWERSO36 R/	
		IC730	AF000711	0IPRPSG033A	IC,PERIPHERALS	STA-508 STM 36PIN,POWERSO36 R/	
		IC750	AF000711	0IPRPSG033A	IC,PERIPHERALS	STA-508 STM 36PIN,POWERSO36 R/	
		IC770	AF000711	0IPRPSG033A	IC,PERIPHERALS	STA-508 STM 36PIN,POWERSO36 R/	
		JK601	AF000636	6612BBBHN5A	JACK,DIN	SCN556S4GTTB000 S-VIDEO HYUSUN	
		JK602	79097573	6612R-L002A	JACK,FIBER OPTIC	TORX178 TOSHIBA	
		JKS01	AF000640	6640000012A	TERMINAL BLOCK	NLA1-01-001 NIPPON 6P AC600V 1	
⚠		L101	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
⚠		L102	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L103	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L104	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L201	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L202	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L203	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L302	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L303	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L304	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L305	79096206	0RH0000D622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 10 W 2012 5.00% D	
		L307	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L310	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L401	79096571	0LR0102J025	INDUCTOR,RADIAL LEAD	10UH 5% 4X5 TR5	
		L402	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L403	79096571	0LR0102J025	INDUCTOR,RADIAL LEAD	10UH 5% 4X5 TR5	
		L404	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L431	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L451	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L461	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L462	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L464	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L465	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L501	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L502	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L503	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L504	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L505	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L560	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L597	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L598	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L599	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L601	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L603	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L604	79096572	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L605	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L710	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L711	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L722	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L730	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L731	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L742	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L750	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L751	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L762	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L770	79091005	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L771	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		L781	AF000617	6140RCC007D	COIL,RF	15UH 2 DRUM COIL -DVD RCV	
		PDM01	AF000778	6630XE00123	CONNECTOR (CIRC),FFC/FPC	04-6232-023-010-000/JE500-B1.0	
		PDM03	AF000777	6630XE00111	CONNECTOR (CIRC),FFC/FPC	04-6232-011-010-000/JE500-B1.0	
		PDV01	AF000753	561-036K	CONNECTOR (CIRC),WAFER	MA 8283-1212 WH ELCO	
		PDV02	AF000757	561-686L	CONNECTOR (CIRC),FFC/FPC	00-8370-121-000-800 ELCO 12PIN	
		PDV03	AF000757	561-686L	CONNECTOR (CIRC),FFC/FPC	00-8370-121-000-800 ELCO 12PIN	
		PWS01	AF000780	6631R-F010V	CONNECTOR ASSEMBLY	GIL-G10/GIL-10J 10P 120M/M AWG	
		Q401	79095002	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		Q402	79096542	0TRRH80042A	TRANSISTOR,BIPOLARS	2SK3018 T106 ROHM KOREA R/TP U	
		Q403	79096542	0TRRH80042A	TRANSISTOR,BIPOLARS	2SK3018 T106 ROHM KOREA R/TP U	
		Q404	79095002	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		Q405	79095002	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		Q406	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q407	79095001	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q408	79095001	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q410	79095002	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		Q411	79095001	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q501	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q607	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q608	79095008	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		Q615	79095002	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		R104	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R105	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R114	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R115	79093030	0RH1004C622	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R118	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R119	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R120	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R121	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R123	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R124	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R125	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R126	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R127	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R129	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R131	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R132	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R135	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R136	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R137	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R138	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R139	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R140	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R141	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R142	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R143	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R145	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R146	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R147	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R148	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R149	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R150	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R151	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R152	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R153	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R154	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R155	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R156	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R163	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R165	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R166	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R167	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R168	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R169	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R170	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R171	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R172	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R175	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R197	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R198	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R201	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R202	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R202	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R203	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R203	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R204	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R204	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R206	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R207	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R208	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R209	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R210	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R211	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R212	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R213	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R214	AF000314	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R215	AF000314	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R216	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R217	AF000539	0RJ0511C677	RESISTOR,METAL GLAZED(CHIP)	5.1 OHM 1/16 W 5% 1608 R/TP	
		R218	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R219	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R220	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R221	AF000539	0RJ0511C677	RESISTOR,METAL GLAZED(CHIP)	5.1 OHM 1/16 W 5% 1608 R/TP	
		R222	AF000537	0RH1802C422	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 1.00% D	
		R223	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R224	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R225	79093051	0RH7501C622	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R226	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R227	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R228	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R229	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R230	79093051	0RH7501C622	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R231	79093057	0RH1500C622	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
		R232	79093057	0RH1500C622	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
		R250	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R251	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R301	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R302	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R303	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R304	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R305	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R306	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R307	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R308	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R309	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R310	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R311	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R312	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R313	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R314	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R315	79093039	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R316	79093039	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R318	79093031	0RH1201C622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R319	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R320	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R321	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R322	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R323	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R324	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R325	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R326	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R327	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R328	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R329	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R330	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R331	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R332	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R333	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R334	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R335	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R336	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R337	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R338	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R339	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R340	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R341	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R351	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R352	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R353	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R354	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R355	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R356	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R357	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R358	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R359	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R360	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R361	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R362	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R363	79098770	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R364	79098770	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R365	79098770	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R366	79098770	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R367	79098773	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R368	79098773	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R370	79096215	0RH3302C622	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R372	79096215	0RH3302C622	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R373	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R374	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R375	79093047	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R376	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R377	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R378	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R379	79093021	0RH0102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R401	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R402	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R403	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R404	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R405	79096563	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R406	79096563	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R407	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R408	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R409	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R410	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R411	79096564	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R412	79096547	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R413	79096553	0RH3903C622	RESISTOR,METAL GLAZED(CHIP)	390K OHM 1 / 16 W 1608 5.00% D	
		R414	79096547	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R415	79096553	0RH3903C622	RESISTOR,METAL GLAZED(CHIP)	390K OHM 1 / 16 W 1608 5.00% D	
		R416	79096565	0RH0101C622	RESISTOR,METAL GLAZED(CHIP)	1 OHM 1 / 16 W 1608 5.00% D	
		R417	79096564	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R418	79096564	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R420	79096563	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R421	79096563	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R423	AF000715	0RH1200C622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R424	AF000715	0RH1200C622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R425	AF000715	0RH1200C622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R426	AF000715	0RH1200C622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R431	79093039	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R432	79093039	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R433	79096564	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R434	79096564	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R435	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R436	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R437	79096557	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R438	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R439	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R440	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R441	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R442	79096557	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R443	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R444	79093035	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R445	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R446	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R451	79096215	0RH3302C622	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R452	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R453	79096557	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R454	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R455	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R456	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R458	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R459	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R470	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R475	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R476	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R478	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R479	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R480	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R481	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R501	79096480	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R502	79096547	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R503	79093024	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R504	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R505	79093024	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R506	79093024	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R507	79093041	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R508	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R509	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R510	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R511	79093037	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R512	79096030	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R513	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R515	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R515	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R516	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R516	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R517	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R517	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R518	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R518	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R520	79098773	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R521	79096210	0RH0472C622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R523	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R525	79093031	0RH1201C622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R526	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R527	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R528	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R534	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R535	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R537	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R540	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R542	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R543	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R544	79093027	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R546	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R547	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R547	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R548	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R548	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R549	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R550	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R550	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R551	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R552	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R555	79093033	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R564	79093037	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R565	79093037	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R566	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R567	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R568	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R569	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R570	79098770	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R571	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R575	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R576	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R577	79093044	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R578	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R579	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R580	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R581	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R591	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R591	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R592	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R592	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R596	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R596	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R597	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R597	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R598	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R599	AF000119	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R599	79096209	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R5A1	79093045	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R5A9	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R607	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R608	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R609	79098767	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R610	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R651	79093025	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R652	79093025	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R711	79098771	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R712	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R713	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R714	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R715	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R716	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R717	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R718	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R719	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R720	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R721	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R722	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R723	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R724	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R725	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R726	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R727	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R728	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R729	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R730	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R731	79098771	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R732	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R733	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R734	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R735	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R736	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R737	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R738	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R739	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R740	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R741	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R742	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R743	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R744	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R745	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R746	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R747	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R748	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R749	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R750	AF000538	0RJ0151D672	RESISTOR,METAL GLAZED(CHIP)	1.5 OHM 1/10 W 5% 2012 R/TP	
		R751	79098771	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R752	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R753	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R754	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R756	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R757	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R758	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R759	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R760	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R761	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R765	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R766	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R767	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R768	AF000669	0RH0561D622	RESISTOR,METAL GLAZED(CHIP)	5.6 OHM 1 / 10 W 2012 5.00% D	
		R771	79098771	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R772	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R773	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R775	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R776	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R777	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R778	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R779	AF000668	0RH0122D622	RESISTOR,METAL GLAZED(CHIP)	12 OHM 1 / 10 W 2012 5.00% D	
		R787	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R788	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R789	AF000535	0RH0472E622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 8 W 3216 5.00% D	
		R790	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R791	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R792	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R793	79093020	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R798	79093029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		TU101	AF000641	6700FM0091A	TUNER	KST-ML000MV0-61L(2/3GANG-FCC)7	
		X101	79097565	6212AA2983C	RESONATOR,CRYSTAL	HC-49S BUBANG 9.8304MHZ +/- 30	
		X201	79097564	6204R-HK01C	OSCILLATOR	KXO-210 BUBANG AXIAL 12.288MHZ	
		X501	79097346	6202R-BL06C	RESONATOR,CRYSTAL	HC-49/S BUBANG 27MHZ 20PPM 15	
		***** CHASSIS ASSEMBLY *****					
		A44	AF000724	3141R-H025J	CHASSIS ASSEMBLY	LH-C644M ASSY(USA-CANADA)	
		260	AF000555	3211R-H002B	FRAME ASSEMBLY	LH-C444M(MP) MAIN	
		261	AF000554	3210R-H004A	FRAME	HT-V700 MOLD	
		261A	AF000612	5040RL0001A	RUBBER	HOME LH-C641M OTHER FOOT D23*	
		262	AF000556	3300R-H011A	PLATE	COMBI-TOSHIBA PRESS SHIELD FRO	
		330	AF000552	3140R-H003A	CHASSIS	COMBI-81MM PRESS MAIN	
		452	79097906	353-051B	SCREW,DRAWING	SPECIAL	
		***** CABINET ASSEMBLY *****					
		250	AF000547	3091RLP001B	CABINET ASSEMBLY	HOME LH-C444M 200W/400W TOP WI	
		251	AF000546	3090R-H002B	CABINET	COMBI 81MM PRESS TOP 200/400W	
		252	AF000599	4850RL0001A	CUSHION	HOME LH-C641M OTHER CABINET	

S	AL	LOCA. NO.	TOSHIBA P/NO	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		*** PANEL ASSEMBLY , FRONT ***					
		A43	AF000739	3721R-M186C	PANEL ASSEMBLY,AUDIO	HOME LH-C644M FRONT	
		280	AF000580	3720R-M021A	PANEL,AUDIO	HOME THEATER COMBI-TOSHIBA MOL	
		281	AF000606	4940R-T132A	KNOB	HOME COMBI-TOSHIBA MOLD	
		281A	AF000607	4940R-T133A	KNOB	HOME COMBI-TOSHIBA MOLD TUNING	
		281C	AF000609	4940R-T135A	KNOB	HOME COMBI-TOSHIBA MOLD OP/CL	
		281D	AF000608	4940R-T134A	KNOB	HOME COMBI-TOSHIBA MOLD MAIN	
		282	AF000558	3300R-T001A	PLATE	LH-C240 PRESS JACK SHIELD GND	
		283	AF000574	3581R-V089B	DOOR ASSEMBLY	HOME THEATER LH-C444M(MP) VCR	
		284	79096419	442-681A	SPRING	DOOR	
		285	AF000573	3580R-T138A	DOOR	HOME THEATER COMBI-TOSHIBA MOL	
		286	AF000422	4970R-0146A	SPRING	PLATE DR4000 SPRING	
		287	AF000562	3508R-H007A	DECORATION	COMBI-TOSHIBA MOLD	
		288	AF000740	3790R-P095A	WINDOW,DECO	HOME LH-C644M MOLD DISPLAY(TOS	
		*** DECK ASSEMBLY , MD (DVD) ***					
		A26	AF000643	6721RF0379A	DECK ASSEMBLY,VIDEO	DECK/MECHA DP-7C SLIM (DI)	NSP
		A01	79096511	4861R-0016C	CLAMP ASSEMBLY	DECK/MECHA DISC DP-7 (DI)	
		A02	79096536	3041R-M013C	BASE ASSEMBLY	MAIN DP-7C (DI)	
		A03	79096535	3041R-M016C	BASE ASSEMBLY	SLED DP-7C(DI)	
		001	79097006	3300R-0547A	PLATE	CLAMP	NSP
		002	79097007	5016H-1016B	MAGNET	CLAMP(LDM-R608,10*5,1*1.5T)	NSP
		003	AF000069	4860R-0021A	CLAMP	UPPER DP7	NSP
		004	79097553	4930R-0171A	HOLDER	CLAMP	
		010	79096473	6850R-GK22Z	CABLE,FLAT	P=1.0 FFC UL2896(0.05X0.65) 11	
		010	AF000646	6850R-JK18Z	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 11	
		011	79096531	3210R-M002A	FRAME	UP/DOWN MOLD DP7C	
		011A	79096492	6850R-JW14E	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 23	
		012	79096652	5040R-0075B	RUBBER	DAMPER DP7 (CHUNG PUNG 30)	
		012	AF000076	5040R-0075D	RUBBER	DAMPER DP7 (YAMAUCHI 30)	
		013	AF000050	4400R-0006B	BELT	DECK/MECHA DP2-5, DP7C,DP7A OT	
		014	79096235	4470R-0055A	GEAR	PULLEY	
		015	79096477	6871RZ5130A	PWB(PCB) ASSEMBLY,OTHERS	SUB,L/D (DP-4V,DVD+VCR) DI	
		015A	79096513	4681R-1023E	MOTOR ASSEMBLY	LOADING (DI)	
		015B	79096516	4560R-0008A	PULLEY	MOTOR	
		015C	79096515	4680HP2001A	MOTOR(MECH)	RF-300CH-11440(SHAFT 6.05L)M/C	
		015C	AF000065	4680R-E009A	MOTOR(MECH)	FEEDING RF300EH-1D390 MABUCHI	
		015C	AF000066	4680R-E010A	MOTOR(MECH)	FEEDING BCZ3B51 SANKYO FOR DP7	
		015C	AF000057	4680HP2011A	MOTOR(MECH)	PC200DG-21651C JOHNSON LOADING	
		015C	AF000064	4680R-D003A	MOTOR(MECH)	LOADING RF-300EH-1D390 MABUCHI	
		017	79096236	4470R-0056A	GEAR	LOADING	
		018	79096240	4974R-0023A	GUIDE	UP/DOWN	
		020	AF000020	3040R-M001A	BASE	MAIN MOLD	NSP
		021	AF000062	4680R-C011A	MOTOR(MECH)	SPINDLE JCL9B68 SANKYO FOR COM	
		022	79096514	4681R-0034C	MOTOR ASSEMBLY	DECK/MECHA FEED DP-7C(DI)	
		024	AF000054	4470R-0131A	GEAR	PINION DP7C	
		024A	79096508	5006R-0044A	CAP	SKEW-T DP7C	
		024B	79096509	5006R-0043A	CAP	SKEW DP7C	
		025	79096518	4470R-0130A	GEAR	MIDDLE DP7C	
		026	AF000353	3390R-0017A	TRAY	DVD DISC(DP-7C-SLIM) MOLD	
		028	79096520	4370R-0082B	SHAFT	DECK/MECHA PU R DP-7C OTHER	
		029	AF000049	4370R-0082A	SHAFT	PU DP-7C	
		030	79096517	4471R-0013C	GEAR ASSEMBLY	DECK/MECHA RACK DP-7C(7A) DI	
		031	79096646	6716DPH005A	PICK UP,DVD	PVR-502W MITSUMI PLAYER H/HIGH	
		429	79096221	1SZZR-0012A	SCREW,DRAWING	B-TITE	
		430	79097901	1SZZH-1003A	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/NIY 4.5MM	
		430	79097901	1SZZH-1003A	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/NIY 4.5MM	
		431	79096220	1SZZH-1007B	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	
		431	79096220	1SZZH-1007B	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	
		433	79096541	1SZZR-0050A	SCREW,DRAWING	+ 1 D2.0 L4.5 SWRCH16A/ZNY S-T	
		435	79097902	1SZZR-0011A	SCREW,DRAWING	MACHINE	

MEMO

TOSHIBA CORPORATION
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